

March 4, 2015

RECEIVED PRO
MAR 07 2016

Mr. Shawn Weimer
VPDES Water Permit Writer
Department of Environmental Quality
4949-A Cox Road
Glen Allen, VA 23060

Re: VPDES Permit No. VA0003077, DuPont Teijin Films, Renewal Application

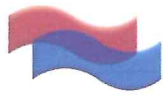
Dear Mr. Weimer,

Please find enclosed DuPont Teijin Film's VPDES Permit No. VA0003077 renewal application paperwork. The following forms have been included:

- EPA Form 1
- EPA Form 2A
- EPA Form 2C
- EPA Form 2F
- DEQ Sewage Sludge Permit Application
- VPDES Permit Application Addendum
- VPDES Public Notice Billing Information Form
- DEQ Water Quality Criteria Monitoring Form

Please note the following changes to forms as we discussed either via email or phone calls:

- Form 2A section A12: Temperature is not measured at Sanitary Outfall 102 and was therefore left blank on the form. Additionally, Fecal Coliform is not measured at Sanitary Outfall 102. However, e. Coli is monitored four (4) times per month by our VELAP Certified Lab. As such, we have submitted e. Coli results in the Fecal Coliform row in section A12.
- Form 2C Page 1 of 4: This section is asking for the outfall and its contributing flow. Outfall 001/901 is fed by 002 and 003 during wet conditions. There is no way to distinguish between what is flowing from 002 or 003 into 001/901 during rain events. As such, an average of precipitation data noted in the 2013-2014 DMRs was used.
- Form 2C Section V, Outfall 001: Because TRC is required to be done in the field, the VELAP certified lab did not perform this test. The TRC reading was performed in house – and has been reported in the results section.
- Form 2C Section V, Outfall 101: Temperature, pH, and TRC are not typically measured at Outfall 101. There is no temperature or pH data available for this outfall. However, a TRC result has been reported. Because TRC is required to be done in the field, the VELAP certified lab did not perform this test. The TRC reading was performed in house – and has been reported in the results section.
- Form 2F: Several rain events were required to get all samples collected. The rain event that occurred December 17 was less than 72 hours from the previous rain event. However, at the site, only a brief rain shower was observed and it did not result in flow from outfall 002, 003, or 004.



The last two rain events were February 21 and February 23. On February 21, no flow was observed at Outfall 002 due to it being an earthen ditch. However, flow was observed at Outfalls 003 and 004. Samples were collected for composite COD and TSS on February 21 for Outfalls 901, 003, and 004. With the rainfall on February 23, enough fell that there was flow through the earthen ditch and thus flow at Outfall 002. While these storm events were not 72 hours apart, a visual check throughout the February 21 rain event assured us there was not enough rainfall to warrant a flow at the outfall thus requiring the sample to be taken February 23 for Outfall 002.

- DEQ Sewage Sludge Permit Application: Question 8 is not applicable to the site
- Attachment A: Per the VELAP lab, the QL for the hexachrome component is 3 ug/L. This is the same QL that was used with the last permit renewal in 2011. Attachment A was sent directly to the lab so they could use that as guidance for testing and setting up the necessary QL levels. Additionally, the units that the Beta Particle & Photon Activity results are pCi/L rather than the mrem/yr as indicated on the sheet.

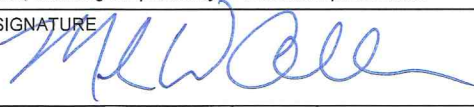
Please let me know if there are any questions or comments on the paperwork submitted for the permit renewal application. I can be reached directly either by phone at (804)530-9844 or email jennifer.forstner@usa.dupont.com.

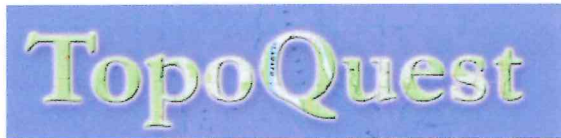
Sincerely,

Jennifer Forstner
Environmental Engineer

FORM 1 GENERAL		U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION Consolidated Permits Program (Read the "General Instructions" before starting.)		I. EPA I.D. NUMBER	
				S	T/A
				F	C
				1	2
				13	14
				15	
LABEL ITEMS		PLEASE PLACE LABEL IN THIS SPACE		GENERAL INSTRUCTIONS	
I. EPA I.D. NUMBER				If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.	
III. FACILITY NAME					
V. FACILITY MAILING ADDRESS					
VI. FACILITY LOCATION					
II. POLLUTANT CHARACTERISTICS					
INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms .					
SPECIFIC QUESTIONS		Mark "X"		Mark "X"	
		YES	NO	FORM ATTACHED	
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S. ? (FORM 2A)			X		
		16	17	18	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X		X	
		22	23	24	
E. Does or will this facility treat, store, or dispose of hazardous wastes ? (FORM 3)			X		
		28	29	30	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)			X		
		34	35	36	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)			X		
		40	41	42	
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S. ? (FORM 2B)			X		
		19	20	21	
D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S. ? (FORM 2D)			X		
		25	26	27	
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)			X		
		31	32	33	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)			X		
		37	38	39	
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area ? (FORM 5)			X		
		43	44	45	
III. NAME OF FACILITY					
C. SKIP					
1 DuPont Teijin Films					
15 16 29 30 69					
IV. FACILITY CONTACT					
A. NAME & TITLE (last, first, & title)					
C. B. PHONE (area code & no.)					
2 Jennifer Forstner, Environmental Engineer					
15 16 45 46 48 49 51 52- 55					
V. FACILITY MAILING ADDRESS					
A. STREET OR P.O. BOX					
C. 3600 Discovery Drive					
15 16 45					
B. CITY OR TOWN					
C. STATE					
D. ZIP CODE					
4 Chester					
15 16 40 41 42 47 51					
VI. FACILITY LOCATION					
A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER					
C. 3600 Discovery Drive					
15 16 45					
B. COUNTY NAME					
Chesterfield					
46 70					
C. CITY OR TOWN					
D. STATE					
E. ZIP CODE					
F. COUNTY CODE (if known)					
6 Chester					
15 16 40 41 42 47 51 52 -54					

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)																					
A. FIRST					B. SECOND																
C	7	3	0	8	1	(specify)	Polyester film manufacture	C	7	2	8	2	1	(specify)	Polymer polyester resin manufacture						
15	16	-	19					15	16	-	19										
C. THIRD					D. FOURTH																
C	7				(specify)			C	7				(specify)								
15	16	-	19					15	16	-	19										
VIII. OPERATOR INFORMATION																					
A. NAME										B. Is the name listed in Item VIII-A also the owner?											
C	8	DuPont	Teijin	Films								<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO									
15	16											55	66								
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other," specify.)										D. PHONE (area code & no.)											
F = FEDERAL S = STATE P = PRIVATE					M = PUBLIC (other than federal or state) O = OTHER (specify)					P	(specify)	C	(804)	530-9300							
										P		A									
												15	6	-	18	19	-	21	22	-	26
E. STREET OR P.O. BOX																					
3600 Discovery Drive																					
F. CITY OR TOWN										G. STATE	H. ZIP CODE	IX. INDIAN LAND									
C	B	Chester								VA	23836	Is the facility located on Indian lands?									
15	16											<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO									
										40	41	42	47	-	51	52					
X. EXISTING ENVIRONMENTAL PERMITS																					
A. NPDES (Discharges to Surface Water)					D. PSD (Air Emissions from Proposed Sources)																
C	T	I	9	N	VA0003077	C	T	I	9	P	50418										
15	16	17	18			30	15	16	17	18											
B. UIC (Underground Injection of Fluids)					E. OTHER (specify)																
C	T	I	9	U		C	T	I	9		GW000400	(specify) Groundwater Withdrawal									
15	16	17	18			30	15	16	17	18											
C. RCRA (Hazardous Wastes)					E. OTHER (specify)																
C	T	I	9	R	VA000019273	C	T	I	9		FC043559	(specify) Fuel oil storage									
15	16	17	18			30	15	16	17	18											
XI. MAP																					
<p>Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.</p>																					
XII. NATURE OF BUSINESS (provide a brief description)																					
<p>Manufacture of polyester resin and polyester film as described below:</p> <p>SIC 2821: The Polymer Plant operation produces resin using ethylene glycol and terephthalic acid as raw materials. The resin produced in this operation is used in the Film Plant.</p> <p>SIC 3081: The Film Plant operation extrudes the polyester resin into sheet material (film), applies coating materials to product specifications, cuts the film to customer specifications, packages the rolls of film, and ships the film to customers.</p>																					
XIII. CERTIFICATION (see instructions)																					
<p>I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.</p>																					
A. NAME & OFFICIAL TITLE (type or print)										B. SIGNATURE		C. DATE SIGNED									
Mark W. Allen, Plant Manager												3/4/16									
COMMENTS FOR OFFICIAL USE ONLY																					
C																					
15	16											55									



[Home](#) [View Maps](#) [Find Maps](#) [Find Places](#) [Forum](#) [Resources & Links](#)

Welcome to the TopoQuest Map Viewer!

Rivermont, VA is a populated place located in Chesterfield County at N37.31848° W77.31192° (NAD83). This is the nearest place in the USGS place names database to the center of the map view below. Look below the map view for a list of other places and locations that are visible within this map view. If you need to locate a landmark or feature, you can search for its location on our [Find Places](#) page. If you need to locate a specific USGS topographic map, try our [Find Maps](#) page.

USGS Map Name: [Hopewell, VA](#) Map MRC: 37077C3
Map Center: N37.31250° W77.31250° Datum: NAD27 Zoom: 32m/pixel



Note: Areas shaded green have 1:24K topographic map coverage.

Click on map to:

- ☐ Zoom In (x2)
- ☐ Zoom out (x2)
- ☐ Re-center

Map contents:

- ☐ Choose Automatically
- ☐ Overall Coverage
- ☐ 1:24K Coverage (US)
- ☐ 1:24K Topo maps (US)
- ☐ 1:50K Coverage (Canada)
- ☐ 1:50K Topo maps (Canada)
- ☐ 1:100K Coverage (US)
- ☐ 1:100K Topo maps (US)
- ☐ 1:250K Coverage (US)
- ☐ 1:250K Topo maps (US)
- ☐ Satellite 1m Coverage (US)
- ☐ Satellite 1m (US)

Zoom level:

- ☐ 1m per pixel (Sat)
- ☐ 2m per pixel (Sat)
- ☐ 4m per pixel (Sat)
- ☐ 8m per pixel
- ☐ 16m per pixel
- ☐ 32m per pixel
- ☐ 64m per pixel
- ☐ 128m per pixel
- ☐ 256m per pixel
- ☐ 512m per pixel
- ☐ 1km per pixel
- ☐ 2km per pixel
- ☐ 4km per pixel
- ☐ 10km per pixel

Map Size:

- ☐ Small-ish (512x512)
- ☐ Medium Rare (768x768)
- ☐ Grandel! (1024x1024)
- ☐ Extra Grandel! (1280x1280)

Datum:

- ☐ NAD27
- ☐ NAD83/WGS84

Coordinate format:

- ☐ UTM
- ☐ Nddd,ddd°
- ☐ Wddd,ddd°

Places Within This Map View:

Place

[Rivermont](#)
[Family of God Church](#)
[Weston Manor](#)
[Cabin Creek](#)
[Appomattox Cemetery](#)
[Rivermont Church of Christ](#)
[Pentecostal Holiness Church](#)
[Riverside Park](#)
[Broadway Baptist Church](#)
[Broadway Christian School](#)
[Powers Memorial Baptist Church](#)
[WHAP-AM \(Hopewell\)](#)
[City Point National Cemetery](#)
[Pilgrim Holiness Church](#)
[Enon Census Designated Place](#)

Type

Populated Place
 Church
 Building
 Stream
 Cemetery
 Church
 Church
 Park
 Church
 School
 Church
 Tower
 Cemetery
 Church
 Census

Coordinates (click to center)

[N37.31848° W77.31192°](#)
[N37.31959° W77.31081°](#)
[N37.30876° W77.30387°](#)
[N37.30682° W77.32220°](#)
[N37.30820° W77.30026°](#)
[N37.32543° W77.31609°](#)
[N37.29959° W77.30665°](#)
[N37.30626° W77.29970°](#)
[N37.30293° W77.30053°](#)
[N37.30304° W77.30043°](#)
[N37.29709° W77.31165°](#)
[N37.29626° W77.31359°](#)
[N37.30570° W77.29720°](#)
[N37.29876° W77.30276°](#)
[N37.32734° W77.32167°](#)

FACILITY NAME AND PERMIT NUMBER:

DuPont Teijin Films VA0003077

Form Approved 1/14/99
OMB Number 2040-0086**BASIC APPLICATION INFORMATION****PART A. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS:**

All treatment works must complete questions A.1 through A.8 of this Basic Application Information packet.

A.1. Facility Information.

Facility name DuPont Teijin Films

Mailing Address 3600 Discovery Drive
Chester, VA 23836

Contact person Jennifer Forstner

Title Environmental Engineer

Telephone number (804) 530-9844

Facility Address 3600 Discovery Drive
(not P.O. Box) Chester, VA 23836

A.2. Applicant Information. If the applicant is different from the above, provide the following:

Applicant name _____

Mailing Address _____

Contact person _____

Title _____

Telephone number _____

Is the applicant the owner or operator (or both) of the treatment works?☒ owner ☒ operator

Indicate whether correspondence regarding this permit should be directed to the facility or the applicant.

☐ facility ☒ applicant**A.3. Existing Environmental Permits.** Provide the permit number of any existing environmental permits that have been issued to the treatment works (include state-issued permits).

NPDES VA0003077 PSD 50418

UIC _____ Other GW000400

RCRA VAD000019273 Other FC043559

A.4. Collection System Information. Provide information on municipalities and areas served by the facility. Provide the name and population of each entity and, if known, provide information on the type of collection system (combined vs. separate) and its ownership (municipal, private, etc.).

Name	Population Served	Type of Collection System	Ownership
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Total population served		_____	_____

FACILITY NAME AND PERMIT NUMBER:

Form Approved 1/14/99
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DuPont Teijin Films VA0003077

A.5. Indian Country.

- a. Is the treatment works located in Indian Country?

☐ Yes ☒ No

- b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country?

☐ Yes ☒ No**A.6. Flow.** Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal.

- a. Design flow rate
- 0.009
- mgd

	<u>Two Years Ago</u>	<u>Last Year</u>	<u>This Year</u>
b. Annual average daily flow rate	<u>0.0031</u>	<u>0.0041</u>	<u>0.0066</u> mgd
c. Maximum daily flow rate	<u>0.0079</u>	<u>0.011</u>	<u>0.0079</u> mgd

A.7. Collection System. Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each.

☒ Separate sanitary sewer 100 %

☐ Combined storm and sanitary sewer _____ %

A.8. Discharges and Other Disposal Methods.

- a. Does the treatment works discharge effluent to waters of the U.S.?
- ☒
- Yes
- ☐
- No

If yes, list how many of each of the following types of discharge points the treatment works uses:

i. Discharges of treated effluent	<u>Yes</u>
ii. Discharges of untreated or partially treated effluent	<u>No</u>
iii. Combined sewer overflow points	<u>No</u>
iv. Constructed emergency overflows (prior to the headworks)	<u>No</u>
v. Other _____	_____

- b. Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.?

☐ Yes ☒ NoIf yes, provide the following for each surface impoundment:

Location: _____

Annual average daily volume discharged to surface impoundment(s) _____ mgd

Is discharge _____ continuous or _____ intermittent?

- c. Does the treatment works land-apply treated wastewater?

☐ Yes ☒ NoIf yes, provide the following for each land application site:

Location: _____

Number of acres: _____

Annual average daily volume applied to site: _____ Mgd

Is land application _____ continuous or _____ intermittent?

- d. Does the treatment works discharge or transport treated or untreated wastewater to another treatment works?

☒ Yes ☐ No

FACILITY NAME AND PERMIT NUMBER:Form Approved 1/14/99
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DuPont Teijin Films VA0003077

If yes, describe the mean(s) by which the wastewater from the treatment works is discharged or transported to the other treatment works (e.g., tank truck, pipe).

Tanker truck

If transport is by a party other than the applicant, provide:

Transporter name: Johnny on the SpotMailing Address: 6110 Plane Drive
Petersburg, VA 23803Contact person: D. C. BerberichTitle: Owner/OperatorTelephone number: (804) 387-6070

For each treatment works that receives this discharge, provide the following:

Name: Hopewell Regional Wastewater Treatment FacilityMailing Address: 231 Hummel Ross Road
Hopewell, VA 23860Contact person: Jeanie GrandstaffTitle: Acting HRWTF DirectorTelephone number: (804) 541-2210

If known, provide the NPDES permit number of the treatment works that receives this discharge. _____

Provide the average daily flow rate from the treatment works into the receiving facility. _____ mgd

- e. Does the treatment works discharge or dispose of its wastewater in a manner not included in A.8.a through A.8.d above (e.g., underground percolation, well injection)?

_____ Yes

_____ ☒ No

If yes, provide the following for each disposal method:

Description of method (including location and size of site(s) if applicable):

Annual daily volume disposed of by this method: _____

Is disposal through this method _____ continuous or _____ intermittent?

FACILITY NAME AND PERMIT NUMBER:

DuPont Teijin Films VA0003077

Form Approved 1/14/99
OMB Number 2040-0086**WASTEWATER DISCHARGES:**

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 **once for each outfall** (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

A.9. Description of Outfall.

- a. Outfall number 102
- b. Location Chester, VA 23836
(City or town, if applicable) (Zip Code)
Chesterfield VA
(County) (State)
37.35259° -77.291179°
(Latitude) (Longitude)
- c. Distance from shore (if applicable) _____ ft.
- d. Depth below surface (if applicable) _____ ft.
- e. Average daily flow rate 6000 mgd
- f. Does this outfall have either an intermittent or a periodic discharge? _____ Yes ☒ No (go to A.9.g.)
- If yes, provide the following information:
- Number of times per year discharge occurs: _____
- Average duration of each discharge: _____
- Average flow per discharge: _____ mgd
- Months in which discharge occurs: _____
- g. Is outfall equipped with a diffuser? _____ Yes ☒ No

A.10. Description of Receiving Waters.

- a. Name of receiving water James River
- b. Name of watershed (if known) _____
- United States Soil Conservation Service 14-digit watershed code (if known): _____
- c. Name of State Management/River Basin (if known): _____
- United States Geological Survey 8-digit hydrologic cataloging unit code (if known): _____
- d. Critical low flow of receiving stream (if applicable):
acute _____ cfs chronic _____ cfs
- e. Total hardness of receiving stream at critical low flow (if applicable): _____ mg/l of CaCO₃

FACILITY NAME AND PERMIT NUMBER:

Form Approved 1/14/99
OMB Number 2040-0086

DuPont Teijin Films VA0003077

A.11. Description of Treatment.

- a. What levels of treatment are provided? Check all that apply.

☒ Primary ☒ Secondary
☐ Advanced ☐ Other. Describe: _____

- b. Indicate the following removal rates (as applicable):

Design BOD₅ removal or Design CBOD₅ removal 90 %
 Design SS removal 90 %
 Design P removal N/A %
 Design N removal N/A %
 Other _____ %

- c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe.

Chlorination

If disinfection is by chlorination, is dechlorination used for this outfall? _____ Yes ☒ No

- d. Does the treatment plant have post aeration? _____ Yes
- ☒
- No

A.12. Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart.

Outfall number: 102

PARAMETER	MAXIMUM DAILY VALUE		AVERAGE DAILY VALUE		
	Value	Units	Value	Units	Number of Samples
pH (Minimum)	5.74	s.u.			
pH (Maximum)	9.09	s.u.			
Flow Rate	8793	gpd			
Temperature (Winter)					
Temperature (Summer)					

* For pH please report a minimum and a maximum daily value

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Conc.	Units	Number of Samples		

CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.

BIOCHEMICAL OXYGEN DEMAND (Report one)	BOD-5	0.28	kg/d	0.12	kg/d	6	**5210B	
	CBOD-5							
FECAL COLIFORM		2420	mpn/100ml	10.1	mpn/100m	6	COLILERT	
TOTAL SUSPENDED SOLIDS (TSS)		7.1	kg/d	1.37	kg/d	6	**2540D	

END OF PART A.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:Form Approved 1/14/99
OMB Number 2040-0086

DuPont Teijin Films VA0003077

BASIC APPLICATION INFORMATION**PART C. CERTIFICATION**

All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.

Indicate which parts of Form 2A you have completed and are submitting:

Basic Application Information packet

Supplemental Application Information packet:

☐ Part D (Expanded Effluent Testing Data)☐ Part E (Toxicity Testing: Biomonitoring Data)☐ Part F (Industrial User Discharges and RCRA/CERCLA Wastes)☐ Part G (Combined Sewer Systems)**ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title Mark W. Allen, Plant ManagerSignature Telephone number (804) 530-9825Date signed 3/4/16

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

SEND COMPLETED FORMS TO:

EPA I.D. NUMBER (copy from Item 1 of Form 1)
VA0003077

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

Please print or type in the unshaded areas only.

FORM 2C NPDES		U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program					
I. OUTFALL LOCATION							
For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.							
A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	37	21	10	77	17	29	James River
002	37	27	04	77	17	33	James River
003	37	21	08	77	17	30	James River
004	37	21	08	77	17	30	James River
II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES							
A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.							
B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.							
1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT				
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION		b. LIST CODES FROM TABLE 2C-1		
001	Industrial WWTP (includes 3,000 gal groundwater remediation water)	27,386 gpd	Extended aeration w/MBR				
	Sanitary WWTP	4,823 gpd147,660 gpd	Extended aeration				
	Cooling tower	36,000 gpd			4A		
	Steam boiler	8,000 gpd			4A		
001 - cont.	Rainwater	30,107 gpd			4A		
	Cooling tower (IWWTP)	3,000 gpd			4A		
	Misc	38,344			4A		
	River discharge	147,660 gpd	pH adjustment		2K		
002	Rainwater	10,000 gpy	NA - normally discharges to 001		4A		
003	Rainwater	10,035 gpd	NA - Normally discharges to 001		4A		
	Cooling tower	36,000 gpd	NA - Normally discharges to 001		4A		
	Steam boiler	8,000 gpd	NA - Normally discharges to 001		4A		
004	Rainwater	100,350 gpd	NA		4A		
OFFICIAL USE ONLY (effluent guidelines sub-categories)							

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal? <input checked="" type="checkbox"/> YES (complete the following table) <input type="checkbox"/> NO (go to Section III)								
1. OUTFALL NUMBER (list)	2. OPERATION(s) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		b. TOTAL VOLUME (specify with units)		c. DURATION (in days)
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
001	Chilled water from occasional plant upsets on roof chilled water units	1	3	0.001	0.005	1100 gal	5000 gal	<1 day
III. PRODUCTION								
A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility? <input checked="" type="checkbox"/> YES (complete Item III-B) <input type="checkbox"/> NO (go to Section IV)								
B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)? <input type="checkbox"/> YES (complete Item III-C) <input checked="" type="checkbox"/> NO (go to Section IV)								
C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.								
1. AVERAGE DAILY PRODUCTION						2. AFFECTED OUTFALLS (list outfall numbers)		
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)						
IV. IMPROVEMENTS								
A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions. <input type="checkbox"/> YES (complete the following table) <input checked="" type="checkbox"/> NO (go to Item IV-B)								
1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE				
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED			
B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. <input type="checkbox"/> MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED								

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V. INTAKE AND EFFLUENT CHARACTERISTICS

NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Acetaldehyde Formaldehyde 2,4-D	Polyester degradation Film coating ingredient Weed control	Carbaryl Isopropanolamine Xylene	Insecticide Vegetation control Trace in raw materials

☒ YES (list all such pollutants below)

☐ NO (go to Item VI-B)

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☒ YES (identify the test(s) and describe their purposes below)

☐ NO (go to Section VIII)

Annual acute biological toxicity tests performed as required by existing permit.

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

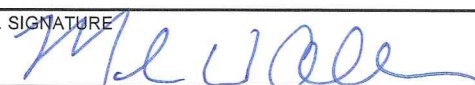
☒ YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

☐ NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
James R. Reed	770 Pilot House Drive Newport News, VA 23606	757-873-4703	All except COD and TSS

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print) Mark W. Allen, Plant Manager	B. PHONE NO. (area code & no.) (804) 530-9825
C. SIGNATURE 	D. DATE SIGNED 3/4/16

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
VA0003077

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)		OUTFALL NO. 001	
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PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)			4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE (1)		b. MAXIMUM 30 DAY VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	10	5.03			1	mg/L	kg/d			
b. Chemical Oxygen Demand (COD)	172	86.58	566		52	mg/L	kg/d			
c. Total Organic Carbon (TOC)	45.6	22.95			1	mg/L	kg/d			
d. Total Suspended Solids (TSS)	2.4	1.21	10.6	9.6	52	mg/L	kg/d			
e. Ammonia (as N)	< 0.10	<0.05	0.07	0.04	52	mg/L	kg/d			
f. Flow	VALUE 132996		VALUE 262569		365	gal		VALUE		
g. Temperature (winter)	VALUE 26		VALUE 26		62	°C		VALUE		
h. Temperature (summer)	VALUE 35.5		VALUE 35.5		92	°C		VALUE		
i. pH	MINIMUM 6.1	MAXIMUM 8.6	MINIMUM 5.5	MAXIMUM 9.4	30	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS			5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)		b. MAXIMUM 30 DAY VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)	X		< 1.00				1	mg/L	kg/d			
b. Chlorine, Total Residual	X		0.10				1	mg/L	kg/d			
c. Color	X		55				1	mg/L	kg/d			
d. Fecal Coliform	X		23				1	mg/L	kg/d			
e. Fluoride (16984-48-8)	X		0.14				1	mg/L	kg/d			
f. Nitrate-Nitrite (as N)	X		1.81				1	mg/L	kg/d			

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	b. NO. OF ANALYSES		
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
g. Nitrogen, Total Organic (as N)	X		2.61	1.31			1	mg/L	kg/d				
h. Oil and Grease		X	<5.0	<2.52			1	mg/L	kg/d				
i. Phosphorus (as P), Total (7723-14-0)	X		1.26	.63			1	mg/L	kg/d				
j. Radioactivity													
(1) Alpha, Total	X						1	pCi/L	kg/d				
(2) Beta, Total	X						1	pCi/L	kg/d				
(3) Radium, Total	X						1	pCi/L	kg/d				
(4) Radium 226, Total	X						1	pCi/L	kg/d				
k. Sulfate (as SO ₄), Total (14808-79-8)	X	X	39	19.63			1	mg/L	kg/d				
l. Sulfide (as S)	X		1.2	0.60			1	mg/L	kg/d				
m. Sulfite (as SO ₃), Total (14265-45-3)		X											
n. Surfactants	X		<0.10	<0.0503			1	mg/L	kg/d				
o. Aluminum, Total (7429-90-5)	X		0.083	0.0418			1	mg/L	kg/d				
p. Barium, Total (7440-39-3)	X		0.032	0.0161			1	mg/L	kg/d				
q. Boron, Total (7440-42-8)	X		<0.05	<0.0252			1	mg/L	kg/d				
r. Cobalt, Total (7440-48-4)	X		0.015	0.0076			1	mg/L	kg/d				
s. Iron, Total (7439-89-6)	X		0.136	0.0685			1	mg/L	kg/d				
t. Magnesium, Total (7439-95-4)	X		2.34	1.1779			1	mg/L	kg/d				
u. Molybdenum, Total (7439-98-7)	X		1.18	0.5940			1	mg/L	kg/d				
v. Manganese, Total (7439-96-5)	X		0.020	0.0101			1	mg/L	kg/d				
w. Tin, Total (7440-31-5)	X		<0.005	<0.0025			1	mg/L	kg/d				
x. Titanium, Total (7440-32-6)	X		<0.005	<0.0025			1	mg/L	kg/d				

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)				
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)		b. MAXIMUM 30 DAY VALUE (if available) (1)		c. LONG TERM AVRG. VALUE (if available) (1)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-0)	X			0.136	0.0685				1	mg/L	kg/d			
2M. Arsenic, Total (7440-38-2)	X			<0.005	<0.003				1	mg/L	kg/d			
3M. Beryllium, Total (7440-41-7)	X			<0.0005	<3E-4				1	mg/L	kg/d			
4M. Cadmium, Total (7440-43-9)	X			<0.0005	<3E-4				1	mg/L	kg/d			
5M. Chromium, Total (7440-47-3)	X			0.001	5E-4				1	mg/L	kg/d			
6M. Copper, Total (7440-50-8)	X			0.025	0.0126				1	mg/L	kg/d			
7M. Lead, Total (7439-92-1)	X			<0.005	<0.003				1	mg/L	kg/d			
8M. Mercury, Total (7439-97-6)	X			<0.0002	<1E-4				1	mg/L	kg/d			
9M. Nickel, Total (7440-02-0)	X			<0.005	<0.003				1	mg/L	kg/d			
10M. Selenium, Total (7782-49-2)	X			<0.005	<0.003				1	mg/L	kg/d			
11M. Silver, Total (7440-22-4)	X			<0.001	<5E-4				1	mg/L	kg/d			
12M. Thallium, Total (7440-28-0)	X			<0.005	<0.003				1	mg/L	kg/d			
13M. Zinc, Total (7440-66-6)	X			0.058	0.0292				1	mg/L	kg/d			
14M. Cyanide, Total (57-12-5)	X			<0.005	<0.003				1	mg/L	kg/d			
15M. Phenols, Total	X			<0.02	<0.010				1	mg/L	kg/d			
DIOXIN														
2,3,7,8-Tetra-chlorodibenzo-P-dioxin (1784-01-6)				DESCRIBE RESULTS				< 10 pg/L						

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1. POLLUTANT AND CAS NUMBER (if available)		2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)					
		a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
					(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)		X			<50	<0.025				1	ug/L	kg/d			
2V. Acrylonitrile (107-13-1)		X			<50	<0.025				1	ug/L	kg/d			
3V. Benzene (71-43-2)		X			<5	<0.003				1	ug/L	kg/d			
4V. Bis (Chloromethyl) Ether (542-88-1)					DELISTED 02-4-1981 ANALYSIS NOT REQUIRED FOR THIS PARAMETER										
5V. Bromoform (75-25-2)		X			<5	<0.003				1	ug/L	kg/d			
6V. Carbon Tetrachloride (56-23-5)		X			<5	<0.003				1	ug/L	kg/d			
7V. Chlorobenzene (108-90-7)		X			<5	<0.003				1	ug/L	kg/d			
8V. Chlorodibromomethane (124-48-1)		X			<5	<0.003				1	ug/L	kg/d			
9V. Chloroethane (75-00-3)		X			<5	<0.003				1	ug/L	kg/d			
10V. 2-Chloroethylvinyl Ether (110-75-8)		X			<10	<0.005				1	ug/L	kg/d			
11V. Chloroform (67-66-3)		X			<5	<0.003				1	ug/L	kg/d			
12V. Dichlorobromomethane (75-27-4)		X			<5	<0.003				1	ug/L	kg/d			
13V. Dichlorodifluoromethane (75-71-8)					DELISTED 07-8-1981 ANALYSIS NOT REQUIRED FOR THIS PARAMETER										
14V. 1,1-Dichloroethane (75-34-3)		X			<5	<0.003				1	ug/L	kg/d			
15V. 1,2-Dichloroethane (107-06-2)		X			<5	<0.003				1	ug/L	kg/d			
16V. 1,1-Dichloroethylene (75-35-4)		X			<5	<0.003				1	ug/L	kg/d			
17V. 1,2-Dichloropropane (78-87-5)		X			<5	<0.003				1	ug/L	kg/d			
18V. 1,3-Dichloropropylene (542-75-6)		X			<5	<0.003				1	ug/L	kg/d			
19V. Ethylbenzene (100-41-4)		X			<5	<0.003				1	ug/L	kg/d			
20V. Methyl Bromide (74-83-9)		X			<5	<0.003				1	ug/L	kg/d			
21V. Methyl Chloride (74-87-3)		X			<5	<0.003				1	ug/L	kg/d			

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	
				(1) CONCENTRATION	(2) MASS					(1) CONCENTRATION	(2) MASS
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)											
22V. Methylene Chloride (75-09-2)	X			<5	<0.003		1	ug/L	kg/d		
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X			<5	<0.003		1	ug/L	kg/d		
24V. Tetrachloroethylene (127-18-4)	X			<5	<0.003		1	ug/L	kg/d		
25V. Toluene (108-88-3)	X			<5	<0.003		1	ug/L	kg/d		
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X			<5	<0.003		1	ug/L	kg/d		
27V. 1,1,1-Trichloroethane (71-55-6)	X			<5	<0.003		1	ug/L	kg/d		
28V. 1,1,2-Trichloroethane (79-00-5)	X			<5	<0.003		1	ug/L	kg/d		
29V. Trichloroethylene (79-01-6)	X			<5	<0.003		1	ug/L	kg/d		
30V. Trichlorofluoromethane (75-69-4)				DELISTED 01-8-1981 ANALYSIS NOT REQUIRED FOR THIS PARAMETER							
31V. Vinyl Chloride (75-01-4)	X			<5	<0.003		1	ug/L	kg/d		
GC/MS FRACTION – ACID COMPOUNDS											
1A. 2-Chlorophenol (95-57-8)	X			<5	<0.003		1	ug/L	kg/d		
2A. 2,4-Dichlorophenol (120-83-2)	X			<5	<0.003		1	ug/L	kg/d		
3A. 2,4-Dimethylphenol (105-67-9)	X			<5	<0.003		1	ug/L	kg/d		
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X			<5	<0.003		1	ug/L	kg/d		
5A. 2,4-Dinitrophenol (51-28-5)	X			<20	<0.010		1	ug/L	kg/d		
6A. 2-Nitrophenol (88-75-5)	X			<5	<0.003		1	ug/L	kg/d		
7A. 4-Nitrophenol (100-02-7)	X			<5	<0.003		1	ug/L	kg/d		
8A. P-Chloro-M-Cresol (59-50-7)	X			<5	<0.003		1	ug/L	kg/d		
9A. Pentachlorophenol (87-86-5)	X			<10	<0.005		1	ug/L	kg/d		
10A. Phenol (108-95-2)	X			<5	<0.003		1	ug/L	kg/d		
11A. 2,4,6-Trichlorophenol (88-05-2)	X			<5	<0.003		1	ug/L	kg/d		

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CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			<5	<0.003					1	ug/L	kg/d			
2B. Acenaphthylene (208-96-8)	X			<5	<0.003					1	ug/L	kg/d			
3B. Anthracene (120-12-7)	X			<5	<0.003					1	ug/L	kg/d			
4B. Benzidine (92-87-5)	X			<5	<0.003					1	ug/L	kg/d			
5B. Benzo (a) Anthracene (56-55-3)	X			<5	<0.003					1	ug/L	kg/d			
6B. Benzo (a) Pyrene (50-32-8)	X			<5	<0.003					1	ug/L	kg/d			
7B. 3,4-Benzofluoranthene (205-99-2)	X			<5	<0.003					1	ug/L	kg/d			
8B. Benzo (ghi) Perylene (191-24-2)	X			<5	<0.003					1	ug/L	kg/d			
9B. Benzo (k) Fluoranthene (207-08-9)	X			<5	<0.003					1	ug/L	kg/d			
10B. Bis (2-Chloroethoxy) Methane (111-91-1)	X			<5	<0.003					1	ug/L	kg/d			
11B. Bis (2-Chloroethoxy) Ether (111-44-4)	X			<5	<0.003					1	ug/L	kg/d			
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)	X			<5	<0.003					1	ug/L	kg/d			
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)	X			<5	<0.003					1	ug/L	kg/d			
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	X			<5	<0.003					1	ug/L	kg/d			
15B. Butyl Benzyl Phthalate (85-68-7)	X			<5	<0.003					1	ug/L	kg/d			
16B. 2-Chloronaphthalene (91-58-7)	X			<5	<0.003					1	ug/L	kg/d			
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	X			<5	<0.003					1	ug/L	kg/d			
18B. Chrysene (218-01-9)	X			<5	<0.003					1	ug/L	kg/d			
19B. Dibenzo (a,h) Anthracene (53-70-3)	X			<5	<0.003					1	ug/L	kg/d			
20B. 1,2-Dichlorobenzene (95-50-1)	X			<5	<0.003					1	ug/L	kg/d			
21B. 1,3-Dichlorobenzene (541-73-1)	X			<5	<0.003					1	ug/L	kg/d			

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. TESTING BELIEVED PRESENT	b. BELIEVED ABSENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)		b. MAXIMUM 30 DAY VALUE (if available) (1)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)		b. NO. OF ANALYSES
				CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS				CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)													
22B. 1,4-Dichloro-benzene (106-46-7)	X			<5	<0.003				1	ug/L	kg/d		
23B. 3,3-Dichloro-benzidine (91-94-1)	X			<5	<0.003				1	ug/L	kg/d		
24B. Diethyl Phthalate (84-66-2)	X			<5	<0.003				1	ug/L	kg/d		
25B. Dimethyl Phthalate (131-11-3)	X			<5	<0.003				1	ug/L	kg/d		
26B. Di-N-Butyl Phthalate (84-74-2)	X			<5	<0.003				1	ug/L	kg/d		
27B. 2,4-Dinitro-toluene (121-14-2)	X			<5	<0.003				1	ug/L	kg/d		
28B. 2,6-Dinitro-toluene (606-20-2)	X			<5	<0.003				1	ug/L	kg/d		
29B. Di-N-Octyl Phthalate (117-84-0)	X			<5	<0.003				1	ug/L	kg/d		
30B. 1,2-Diphenyl-hydrazine (as Azo-benzene) (122-66-7)	X			<5	<0.003				1	ug/L	kg/d		
31B. Fluoranthene (206-44-0)	X			<5	<0.003				1	ug/L	kg/d		
32B. Fluorene (86-73-7)	X			<5	<0.003				1	ug/L	kg/d		
33B. Hexachloro-benzene (118-74-1)	X			<5	<0.003				1	ug/L	kg/d		
34B. Hexachloro-butadiene (87-68-3)	X			<5	<0.003				1	ug/L	kg/d		
35B. Hexachloro-cyclopentadiene (77-47-4)	X			<5	<0.003				1	ug/L	kg/d		
36B. Hexachloro-ethane (67-72-1)	X			<5	<0.003				1	ug/L	kg/d		
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X			<5	<0.003				1	ug/L	kg/d		
38B. Isophorone (78-59-1)	X			<5	<0.003				1	ug/L	kg/d		
39B. Naphthalene (91-20-3)	X			<5	<0.003				1	ug/L	kg/d		
40B. Nitrobenzene (98-95-3)	X			<5	<0.003				1	ug/L	kg/d		
41B. N-Nitro-sodimethylamine (62-75-9)	X			<5	<0.003				1	ug/L	kg/d		
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X			<5	<0.003				1	ug/L	kg/d		

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CONTINUE ON REVERSE

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)				
	a. TESTING REQUIRED (if available)	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
					(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)														
43B. N-Nitro-sodiphenylamine (86-30-6)	X			<5	<0.003					1	ug/L	kg/d		
44B. Phenanthrene (85-01-8)	X			<5	<0.003					1	ug/L	kg/d		
45B. Pyrene (129-00-0)	X			<5	<0.003					1	ug/L	kg/d		
46B. 1,2,4-Tri-chlorobenzene (120-82-1)	X			<5	<0.003					1	ug/L	kg/d		
GC/MS FRACTION – PESTICIDES														
1P. Aldrin (309-00-2)	X			<5	<0.003					1	ug/L	kg/d		
2P. α-BHC (319-84-6)	X			<5	<0.003					1	ug/L	kg/d		
3P. β-BHC (319-85-7)	X			<5	<0.003					1	ug/L	kg/d		
4P. γ-BHC (58-89-9)	X			<5	<0.003					1	ug/L	kg/d		
5P. δ-BHC (319-86-8)	X			<5	<0.003					1	ug/L	kg/d		
6P. Chlordane (57-74-9)	X			<5	<0.003					1	ug/L	kg/d		
7P. 4,4'-DDT (50-29-3)	X			<5	<0.003					1	ug/L	kg/d		
8P. 4,4'-DDE (72-55-9)	X			<5	<0.003					1	ug/L	kg/d		
9P. 4,4'-DDD (72-54-8)	X			<5	<0.003					1	ug/L	kg/d		
10P. Dieldrin (60-57-1)	X			<5	<0.003					1	ug/L	kg/d		
11P. α-Erosulfan (115-29-7)	X			<5	<0.003					1	ug/L	kg/d		
12P. β-Endosulfan (115-29-7)	X			<5	<0.003					1	ug/L	kg/d		
13P. Endosulfan Sulfate (1031-07-8)	X			<5	<0.003					1	ug/L	kg/d		
14P. Endrin (72-20-8)	X			<5	<0.003					1	ug/L	kg/d		
15P. Endrin Alderhyde (7421-93-4)	X			<5	<0.003					1	ug/L	kg/d		
16P. Heptachlor (76-44-8)	X			<5	<0.003					1	ug/L	kg/d		

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VA003077	001

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS
GC/MS FRACTION - PESTICIDES (continued)												
17P. Heptachlor Epoxide (1024-57-3)	X			<5	<0.003					1	ug/L	kg/d
18P. PCB-1242 (53468-21-8)	X			<5	<0.003					1	ug/L	kg/d
19P. PCB-1254 (11097-68-1)	X			<5	<0.003					1	ug/L	kg/d
20P. PCB-1221 (11104-28-2)	X			<5	<0.003					1	ug/L	kg/d
21P. PCB-1232 (11141-16-5)	X			<5	<0.003					1	ug/L	kg/d
22P. PCB-1248 (12672-29-6)	X			<5	<0.003					1	ug/L	kg/d
23P. PCB-1260 (11096-82-5)	X			<5	<0.003					1	ug/L	kg/d
24P. PCB-1016 (12674-11-2)	X			<5	<0.003					1	ug/L	kg/d
25P. Toxaphene (8001-35-2)	X			<20	<0.010					1	ug/L	kg/d

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages.
SEE INSTRUCTIONS.

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VA0003077

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)		OUTFALL NO. 101	
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PART A --You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)			4. INTAKE (optional)	
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			
a. Biochemical Oxygen Demand (BOD)	2	0.133	>258	>8.1	106.96	7.13	52	mg/L	kg/d
b. Chemical Oxygen Demand (COD)	239	15.89	892		395.53		53	mg/L	kg/d
c. Total Organic Carbon (TOC)	65.6	4.36					1		kg/d
d. Total Suspended Solids (TSS)	<1.0	<0.066	<1.0		0.52	0.04	183		kg/d
e. Ammonia (as N)	<1.10	<0.007			1.97	0.17	101		kg/d
f. Flow	VALUE 17540		VALUE 48410		VALUE 65710		327	gal	VALUE
g. Temperature (winter)	VALUE		VALUE		VALUE		1	°C	VALUE
h. Temperature (summer)	VALUE		VALUE		VALUE			°C	VALUE
i. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM			1	STANDARD UNITS	

PART B -- Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					
a. Bromide (24959-67-9)	X		<1.00	<0.066					1	mg/L	kg/d		
b. Chlorine, Total Residual	X		0.06						1	mg/L	kg/d		
c. Color	X		62						1	mg/L	kg/d		
d. Fecal Coliform	X		<1.8						1	mg/L	kg/d		
e. Fluoride (16984-48-8)	X		0.13	0.009					1	mg/L	kg/d		
f. Nitrate-Nitrite (as N)	X		<0.05	<0.003					1	mg/L	kg/d		

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)			2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES	
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
g. Nitrogen, Total Organic (as N)	X		2.3	0.153			1	mg/L	kg/d				
h. Oil and Grease		X	<5	<0.332			1	mg/L	kg/d				
i. Phosphorus (as P), Total (7723-14-0)	X		1.54	0.102		1.13	3	mg/L	kg/d				
j. Radioactivity													
(1) Alpha, Total							1						
(2) Beta, Total							1						
(3) Radium, Total							1						
(4) Radium 226, Total							1						
k. Sulfate (as SO ₄) (14806-79-8)	X		<10	<0.664			1	mg/L	kg/d				
l. Sulfide (as S)	X		1.4	0.093			1	mg/L	kg/d				
m. Sulfite (as SO ₃) (14265-45-3)		X						mg/L	kg/d				
n. Surfactants	X		<0.1	<0.007			1	mg/L	kg/d				
o. Aluminum, Total (7429-90-5)	X		0.063	0.004			1	mg/L	kg/d				
p. Barium, Total (7440-39-3)	X		0.006	0.0004			1	mg/L	kg/d				
q. Boron, Total (7440-42-8)	X		<0.05	<0.003			1	mg/L	kg/d				
r. Cobalt, Total (7440-48-4)	X		0.024	0.0016			1	mg/L	kg/d				
s. Iron, Total (7439-89-6)	X		0.029	0.0019			1	mg/L	kg/d				
t. Magnesium, Total (7439-95-4)	X		1.06	0.070			1	mg/L	kg/d				
u. Molybdenum, Total (7439-98-7)	X		1.58	0.105			1	mg/L	kg/d				
v. Manganese, Total (7439-96-5)	X		0.028	0.0016			1	mg/L	kg/d				
w. Tin, Total (7440-31-5)	X		<0.005	<0.0003			1	mg/L	kg/d				
x. Titanium, Total (7440-32-6)	X		<0.005	<0.0003			1	mg/L	kg/d				

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EPA I.D. NUMBER (copy from Item 1 of Form 1)

V7A0003077

OUTFALL NUMBER

101

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					(1) CONCENTRATION
METALS, CYANIDE, AND TOTAL PHENOLS												
1M. Antimony, Total (7440-38-0)		X		0.213	0.014				1	mg/L	kg/d	
2M. Arsenic, Total (7440-38-2)			X	<0.005	<0.000				1	mg/L	kg/d	
3M. Beryllium, Total (7440-41-7)			X	<0.0005	<3E-5				1	mg/L	kg/d	
4M. Cadmium, Total (7440-43-9)			X	<0.0005	<3E-5				1	mg/L	kg/d	
5M. Chromium, Total (7440-47-3)			X	<0.001	<6E-5				1	mg/L	kg/d	
6M. Copper, Total (7440-50-8)		X		0.002	0.0001				1	mg/L	kg/d	
7M. Lead, Total (7439-92-1)			X	<0.005	<3E-4				1	mg/L	kg/d	
8M. Mercury, Total (7439-97-6)			X	<0.0002	<1E-5				1	mg/L	kg/d	
9M. Nickel, Total (7440-02-0)			X	<0.005	<3E-4				1	mg/L	kg/d	
10M. Selenium, Total (7782-49-2)			X	<0.005	<3E-4				1	mg/L	kg/d	
11M. Silver, Total (7440-22-4)			X	<0.001	<6E-5				1	mg/L	kg/d	
12M. Thallium, Total (7440-28-0)			X	<0.005	<3E-4				1	mg/L	kg/d	
13M. Zinc, Total (7440-66-6)		X		0.042	0.003				1	mg/L	kg/d	
14M. Cyanide, Total (57-12-5)			X	<0.005	<3E-4				1	mg/L	kg/d	
15M. Phenols, Total			X	<0.02	<0.001				1	mg/L	kg/d	
DIOXIN												
2,3,7,8-Tetra-chlorodibenzo-P-dioxin (1764-01-6)			X	DESCRIBE RESULTS <10 pg/L								

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CONTINUE ON REVERSE

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION		c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS			
					(2) MASS	(2) MASS				(1)	(2) MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS													
1V. Acrolein (107-02-8)			X	<50	<0.003				1	ug/L	kg/d		
2V. Acrylonitrile (107-13-1)			X	<50	<0.003	<50	<5E-3		3	ug/L	kg/d		
3V. Benzene (71-43-2)			X	<5	<3e-4	<5	<5E-4		3	ug/L	kg/d		
4V. Bis (Chloromethyl) Ether (542-88-1)				DELISTED 02-4-1981 ANALYSIS NOT REQUIRED FOR THIS PARAMETER									
5V. Bromoform (75-25-2)			X	<5	<3e-4				1	ug/L	kg/d		
6V. Carbon Tetrachloride (56-23-5)			X	<5	<3e-4	<5	<5E-4		3	ug/L	kg/d		
7V. Chlorobenzene (108-90-7)			X	<5	<3e-4	<5	<5E-4		3	ug/L	kg/d		
8V. Chlorodibromomethane (124-48-1)			X	<5	<3e-4				1	ug/L	kg/d		
9V. Chloroethane (75-00-3)			X	<5	<3e-4	<5	<5E-4		3	ug/L	kg/d		
10V. 2-Chloroethylvinyl Ether (110-75-8)			X	<10	<7e-4				1	ug/L	kg/d		
11V. Chloroform (67-66-3)		X		<5	<3e-4	<5	<5E-4		3	ug/L	kg/d		
12V. Dichlorobromomethane (75-27-4)		X		<5	<3e-4				1	ug/L	kg/d		
13V. Dichlorodifluoromethane (75-71-8)				DELISTED 01-8-1981 ANALYSIS NOT REQUIRED FOR THIS PARAMETER									
14V. 1,1-Dichloroethane (75-34-3)			X	<5	<3e-4	<5	<5E-4		3	ug/L	kg/d		
15V. 1,2-Dichloroethane (107-06-2)			X	<5	<3e-4	<5	<5E-4		3	ug/L	kg/d		
16V. 1,1-Dichloroethylene (75-35-4)			X	<5	<3e-4	<5	<5E-4		3	ug/L	kg/d		
17V. 1,2-Dichloropropane (75-87-5)			X	<5	<3e-4	<5	<5E-4		3	ug/L	kg/d		
18V. 1,3-Dichloropropylene (542-75-6)			X	<5	<3e-4	<5	<5E-4		3	ug/L	kg/d		
19V. Ethylbenzene (100-41-4)			X	<5	<3e-4	<5	<5E-4		3	ug/L	kg/d		
20V. Methyl Bromide (74-83-9)			X	<5	<3e-4				1	ug/L	kg/d		
21V. Methyl Chloride (74-87-3)			X	<5	<3e-4	<5	<5E-4		3	ug/L	kg/d		

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT				4. UNITS				5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS <i>(continued)</i>															
22V. Methylene Chloride (75-09-2)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	<5	<3E-4					1	ug/L	kg/d			
24V. Tetrachloroethylene (127-18-4)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
25V. Toluene (108-88-3)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
27V. 1,1,1-Trichloroethane (71-55-6)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
28V. 1,1,2-Trichloroethane (79-00-5)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
29V Trichloroethylene (79-01-6)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
30V. Trichlorofluoromethane (75-69-4)				DELISTED 01-8-1981 ANALYSIS NOT REQUIRED FOR THIS PARAMETER											
31V. Vinyl Chloride (75-01-4)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
2A. 2,4-Dichlorophenol (120-83-2)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
3A. 2,4-Dimethylphenol (105-67-9)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
5A. 2,4-Dinitrophenol (51-28-5)			X	<20	<1E-3			<20	<2E-3	3	ug/L	kg/d			
6A. 2-Nitrophenol (88-75-5)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
7A. 4-Nitrophenol (100-02-7)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
8A. P-Chloro-M-Cresol (59-50-7)			X	<5	<3E-4					1	ug/L	kg/d			
9A. Pentachlorophenol (87-86-5)			X	<10	<7E-4					1	ug/L	kg/d			
10A. Phenol (108-95-2)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d			
11A. 2,4,6-Trichlorophenol (88-05-2)			X	<5	<3E-4					1	ug/L	kg/d			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>				
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS																
1B. Acenaphthene (83-32-9)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d				
2B. Acenaphthylene (208-96-8)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d				
3B. Anthracene (120-12-7)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d				
4B. Benzidine (92-87-5)			X	<5	<3E-4					1	ug/L	kg/d				
5B. Benzo (a) Anthracene (56-55-3)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d				
6B. Benzo (a) Pyrene (50-32-8)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d				
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d				
8B. Benzo (ghi) Perylene (191-24-2)			X	<5	<3E-4					1	ug/L	kg/d				
9B. Benzo (k) Fluoranthene (207-08-9)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d				
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)			X	<5	<3E-4					1	ug/L	kg/d				
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X	<5	<3E-4					1	ug/L	kg/d				
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X	<5	<3E-4					1	ug/L	kg/d				
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d				
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X	<5	<3E-4					1	ug/L	kg/d				
15B. Butyl Benzyl Phthalate (85-68-7)			X	<5	<3E-4					1	ug/L	kg/d				
16B. 2-Chloro-naphthalene (91-58-7)			X	<5	<3E-4					1	ug/L	kg/d				
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	<5	<3E-4					1	ug/L	kg/d				
18B. Chrysene (218-01-9)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d				
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<5	<3E-4					1	ug/L	kg/d				
20B. 1,2-Dichloro-benzene (95-50-1)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d				
21B. 1,3-Di-chloro-benzene (541-73-1)			X	<5	<3E-4			<5	<5E-4	3	ug/L	kg/d				

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)		2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)				
		a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES	
							(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)																	
22B. 1,4-Dichlorobenzene (106-46-7)				X	<5	<3E-4				<5	<5E-4	3	ug/L	kg/d			
23B. 3,3-Dichlorobenzidine (91-94-1)				X	<5	<3E-4						1	ug/L	kg/d			
24B. Diethyl Phthalate (84-66-2)				X	<5	<3E-4				<5	<5E-4	3	ug/L	kg/d			
25B. Dimethyl Phthalate (131-11-3)				X	<5	<3E-4				<5	<5E-4	3	ug/L	kg/d			
26B. Di-N-Butyl Phthalate (84-74-2)				X	<5	<3E-4				<5	<5E-4	3	ug/L	kg/d			
27B. 2,4-Dinitrotoluene (121-14-2)				X	<5	<3E-4				<5	<5E-4	3	ug/L	kg/d			
28B. 2,6-Dinitrotoluene (606-20-2)				X	<5	<3E-4				<5	<5E-4	3	ug/L	kg/d			
29B. Di-N-Octyl Phthalate (117-84-0)				X	<5	<3E-4						1	ug/L	kg/d			
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-86-7)				X	<5	<3E-4						1	ug/L	kg/d			
31B. Fluoranthene (206-44-0)				X	<5	<3E-4				<5	<5E-4	3	ug/L	kg/d			
32B. Fluorene (86-73-7)				X	<5	<3E-4				<5	<5E-4	3	ug/L	kg/d			
33B. Hexachlorobenzene (118-74-1)				X	<5	<3E-4				<5	<5E-4	3	ug/L	kg/d			
34B. Hexachlorobutadiene (87-68-3)				X	<5	<3E-4				<5	<5E-4	3	ug/L	kg/d			
35B. Hexachlorocyclopentadiene (77-47-4)				X	<5	<3E-4						1	ug/L	kg/d			
36B. Hexachloroethane (67-72-1)				X	<5	<3E-4				<5	<5E-4	3	ug/L	kg/d			
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)				X	<5	<3E-4						1	ug/L	kg/d			
38B. Isophorone (78-59-1)				X	<5	<3E-4						1	ug/L	kg/d			
39B. Naphthalene (91-20-3)				X	<5	<3E-4				<5	<5E-4	3	ug/L	kg/d			
40B. Nitrobenzene (98-95-3)				X	<5	<3E-4				<5	<5E-4	3	ug/L	kg/d			
41B. N-Nitrosodimethylamine (62-75-9)				X	<5	<3E-4						1	ug/L	kg/d			
42B. N-Nitrosodi-N-Propylamine (621-64-7)				X	<5	<3E-4						1	ug/L	kg/d			

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CONTINUE ON REVERSE

CONTINUED FROM THE FRONT


1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
					(1) CONCENTRATION	(2) MASS					(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)													
43B. N-Nitro-sodiphenylamine (86-30-6)			X	<5	<3E-4			1	ug/L	kg/d			
44B. Phenanthrene (85-01-8)			X	<5	<3E-4		<5	3	ug/L	kg/d			
45B. Pyrene (129-00-0)			X	<5	<3E-4		<5	3	ug/L	kg/d			
46B. 1,2,4-Tri-chlorobenzene (120-82-1)			X	<5	<3E-4		<5	3	ug/L	kg/d			
GC/MS FRACTION – PESTICIDES													
1P. Aldrin (309-00-2)			X	<5	<3E-4			1	ug/L	kg/d			
2P. α-BHC (319-84-6)			X	<5	<3E-4			1	ug/L	kg/d			
3P. β-BHC (319-85-7)			X	<5	<3E-4			1	ug/L	kg/d			
4P. γ-BHC (58-89-9)			X	<5	<3E-4			1	ug/L	kg/d			
5P. δ-BHC (319-86-8)			X	<5	<3E-4			1	ug/L	kg/d			
6P. Chlordane (57-74-9)			X	<5	<3E-4			1	ug/L	kg/d			
7P. 4,4'-DDT (50-29-3)			X	<5	<3E-4			1	ug/L	kg/d			
8P. 4,4'-DDE (72-55-9)			X	<5	<3E-4			1	ug/L	kg/d			
9P. 4,4'-DDD (72-54-8)			X	<5	<3E-4			1	ug/L	kg/d			
10P. Dieldrin (60-57-1)			X	<5	<3E-4			1	ug/L	kg/d			
11P. α-Endosulfan (115-29-7)			X	<5	<3E-4			1	ug/L	kg/d			
12P. β-Endosulfan (115-29-7)			X	<5	<3E-4			1	ug/L	kg/d			
13P. Endosulfan Sulfate (1031-07-8)			X	<5	<3E-4			1	ug/L	kg/d			
14P. Endrin (72-20-8)			X	<5	<3E-4			1	ug/L	kg/d			
15P. Endrin Aldehyde (7421-93-4)			X	<5	<3E-4			1	ug/L	kg/d			
16P. Heptachlor (76-44-8)			X	<5	<3E-4			1	ug/L	kg/d			

EPA I.D. NUMBER (copy from Item 1 of Form I)	OUTFALL NUMBER
VA003077	101

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (continued)													
17P. Heptachlor Epoxide (1024-57-3)			X	<5	<3E-4				1	ug/L	kg/d		
18P. PCB-1242 (53469-21-9)			X	<5	<3E-4				1	ug/L	kg/d		
19P. PCB-1254 (11097-69-1)			X	<5	<3E-4				1	ug/L	kg/d		
20P. PCB-1221 (11104-28-2)			X	<5	<3E-4				1	ug/L	kg/d		
21P. PCB-1232 (11141-16-5)			X	<5	<3E-4				1	ug/L	kg/d		
22P. PCB-1248 (12672-29-6)			X	<5	<3E-4				1	ug/L	kg/d		
23P. PCB-1260 (11096-82-5)			X	<5	<3E-4				1	ug/L	kg/d		
24P. PCB-1016 (12674-11-2)			X	<5	<3E-4				1	ug/L	kg/d		
25P. Toxaphene (8001-35-2)			X	<20	<0.001				1	ug/L	kg/d		

FORM
2F
NPDES



U.S. Environmental Protection Agency
Washington, DC 20460

**Application for Permit to Discharge Storm Water
Discharges Associated with Industrial Activity**

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

[illegible]

II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

[illegible]

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

Continued from the Front

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
901	10 Acres	25 Acres	002	5.75 Acres	16.5 Acres
003	3 Acres	7.5 Acres	004	6 Acres	31 Acres

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

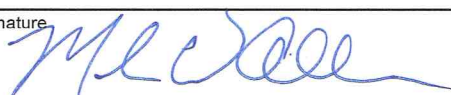
Significant materials: No significant materials are currently stored or have been stored in the last three years in a manner that allows exposure to storm water.
Pesticides: Ornamental trees are treated with Sevin once a year using a tractor-mounted sprayer. Application is done during dry weather conditions.
Herbicides: Weedar 64 broadleaf control is applied once a year with a sprayer during dry weather conditions in turf areas.
Roundup (or generic equivalent) vegetation control is applied as needed several times a year with a sprayer during dry weather conditions in gravel areas and mulch beds.
Fertilizer: Slow release fertilizer is applied to turf areas once a year during dry weather.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
901, 002, & 003	Automated diversion and storage tank for spill control and treatment (901, 002, and 003)	
004	Upstream spill response control methods (004)	

V. Nonstormwater Discharges

A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or Form 2E application for the outfall.

Name and Official Title (type or print)	Signature	Date Signed
Mark W. Allen, Plant Manager		3/4/16

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

Outfalls 002 & 004 observed during dry weather conditions quarterly for confirmation. Outfalls 001 and 003 co-mingle storm water and non-storm water discharges by design.

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

N/A

VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided.
Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.

E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☒ Yes (list all such pollutants below)

☐ No (go to Section IX)

Antimony, Cobalt, Acetaldehyde, Formaldehyde

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes (list all such pollutants below)

☒ No (go to Section IX)

IX. Contract Analysis Information

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

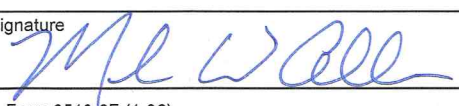
☒ Yes (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

☐ No (go to Section X)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
James R. Reed	770 Pilot House Drive Newport News, VA 23606	757-873-4703	All except COD, pH, TSS, TRC, and temperature

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name & Official Title (Type Or Print) Mark W. Allen, Plant Manager	B. Area Code and Phone No. (804) 530-9825
C. Signature 	D. Date Signed 3/4/16

VII. Stormwater Form 2F Discharge information (Continued from page 3 of Form 2F)**Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.**

Pollutant	Grab Sample Taken During 1st 20 Minutes	Units of Measure	Flow-Weighted Composite (conc)	Units of Measure	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<5	mg/L	N/A	N/A	1	
Biological Oxygen Demand (BOD5)	15	mg/L	9	mg/L	1	Natural sources
Chemical Oxygen Demand (COD)	81	mg/L	74	mg/L	1	Natural sources
Total Suspended Solids (TSS)	59	mg/L	9.8	mg/L	1	Natural sources
Total Nitrogen	2.42	mg/L	0.88	mg/L	1	Naturally occurring or lawn fertilizer
Total Phosphorous	0.52	mg/L	0.68	mg/L	1	Naturally occurring or lawn fertilizer
pH	Minimum		Maximum 8.92			

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if facility is operating under an existing NPDES permit). Complete one table for each outfall. See instructions for additional details and requirements.

Pollutant	CAS	Grab Sample Taken During 1st 20 Minutes	Units of Measure	Flow-Weighted Composite (conc)	Units of Measure	Number of Storm Events Sampled	Sources of Pollutants
1,1,1-Trichloroethane	71-55-6	< 5	ug/L	< 5	ug/L	1	
1,1,2-Trichloroethane	79-00-5	< 5	ug/L	< 5	ug/L	1	
1,1-Dichloroethane	75-34-3	< 5	ug/L	< 5	ug/L	1	
1,1-Dichloroethylene	75335-4	< 5	ug/L	< 5	ug/L	1	
1,2,4-Trichlorobenzene	120-82-1	< 5	ug/L	< 5	ug/L	1	
1,2-Dichlorobenzene	95-50-1	< 5	ug/L	< 5	ug/L	1	
1,2-Dichloroethane	107-06-2	< 5	ug/L	< 5	ug/L	1	
1,2-Dichloropropane	78-87-5	< 5	ug/L	< 5	ug/L	1	
1,2-Trans-Dichloroethylene	156-60-5	< 5	ug/L	< 5	ug/L	1	
1,3-Dichlorobenzene	541-73-1	< 5	ug/L	< 5	ug/L	1	
1,3-Dichloropropylene	542-76-6	< 5	ug/L	< 5	ug/L	1	
1,4-Dichlorobenzene	106-46-7	< 5	ug/L	< 5	ug/L	1	
2,4-Dichlorophenol	120-83-2	< 5	ug/L	< 5	ug/L	1	
2,4-Dimethylphenol	105-67-9	< 5	ug/L	< 5	ug/L	1	
2,4-Dinitrophenol	51-28-5	< 20	ug/L	< 20	ug/L	1	
2,4-Dinitrotoluene	121-14-2	< 5	ug/L	< 5	ug/L	1	
2,6-Dinitrotoluene	606-20-2	< 5	ug/L	< 5	ug/L	1	
2-Chlorophenol	95-57-8	< 5	ug/L	< 5	ug/L	1	
2-Nitrophenol	88-75-5	< 5	ug/L	< 5	ug/L	1	
3,4-Benzofluoranthene	205-99-2	< 5	ug/L	< 5	ug/L	1	
4,6-Dinitro-O-Cresol	534-52-1	< 5	ug/L	< 5	ug/L	1	
4-Nitrophenol	100-02-7	< 5	ug/L	< 5	ug/L	1	
Acenaphthene	83-32-9	< 5	ug/L	< 5	ug/L	1	

Acenaphthylene	208-96-8	< 5	ug/L	< 5	ug/L	1	
Acrylonitrile	107-13-1	< 50	ug/L	< 50	ug/L	1	
Aluminum, Total	7429-90-5	0.814	mg/L	3.12	mg/L	1	Outdoor aluminum tanks and equipment
Anthracene	120-12-7	< 5	ug/L	< 5	ug/L	1	
Barium, Total	7440-39-3	0.107	mg/L	0.125	mg/L	1	
Benzene	71-43-2	< 5	ug/L	< 5	ug/L	1	
Benzo(a)anthracene	56-55-3	< 5	ug/L	< 5	ug/L	1	
Benzo(a)pyrene	50-32-8	< 5	ug/L	< 5	ug/L	1	
Benzo(k)fluoranthene	207-08-9	< 5	ug/L	< 5	ug/L	1	
Bis(2-ethylhexyl)phthalate	117-81-7	< 5	ug/L	< 5	ug/L	1	
Boron, Total	7440-42-8	< 0.05	mg/L	< 0.05	mg/L	1	
Bromide	24959-67-9	< 1	mg/L	< 1	mg/L	1	
Carbon Tetrachloride	56-23-5	< 5	ug/L	< 5	ug/L	1	
Chlorine, Total Residual	NA	0	mg/L	0	mg/L	1	
Chlorobenzene	108-90-7	< 5	ug/L	< 5	ug/L	1	
Chloroethane	75-22-3	< 5	ug/L	< 5	ug/L	1	
Chloroform	67-66-3	5	ug/L	5	ug/L	1	
Chrysene	218-01-9	< 5	ug/L	< 5	ug/L	1	
Cobalt, Total	7440-48-4	0.02	mg/L	0.02	mg/L	1	
Color	NA	45	pcu	35	pcu	1	Natural sediment and vegetation
Diethyl Phthalate	84-66-2	< 5	ug/L	< 5	ug/L	1	
Dimethyl Phthalate	131-11-3	< 5	ug/L	< 5	ug/L	1	
Di-N-Butyl Phthalate	84-74-2	< 5	ug/L	< 5	ug/L	1	
Dissolved oxygen	NA	8.07	mg/L	NA	NA	1	
Ethylbenzene	100-41-4	< 5	ug/L	< 5	ug/L	1	
Fecal Coliform	NA	140	MPN/100mL	NA	NA	1	Animal droppings in ditches
Fluorene	86-73-7	< 5	ug/L	< 5	ug/L	1	
Fluoride	16984-48-8	< 0.24	mg/L	< 0.1	mg/L	1	
Fluoranthene	206-44-0	< 5	ug/L	< 5	ug/L	1	
Gross Alpha		0.245	pCi/L	1.44	pCi/L	1	
Gross Beta		7.34	pCi/L	1.48	pCi/L	1	
Hexachlorobenzene	118-74-1	< 5	ug/L	< 5	ug/L	1	
Hexachlorobutadiene	87-68-3	< 5	ug/L	< 5	ug/L	1	
Hexachloroethane	67-72-1	< 5	ug/L	< 5	ug/L	1	
Iron, Total	7439-89-4	1.33	mg/L	4.06	mg/L	1	Pipe and other steel materials
Magnesium, Total	7439-95-4	8.34	mg/L	8.03	mg/L	1	Naturally occurring hardness
Manganese, Total	7440-31-5	0.082	mg/L	0.146	mg/L	1	Trace impurity in fertilizer
Methyl Chloride	74-87-3	< 5	ug/L	< 5	ug/L	1	
Methylene Chloride	75-09-2	< 5	ug/L	< 5	ug/L	1	
Molybdenum, Total	7439-98-7	2.97	mg/L	1	mg/L	1	Source unknown
Napthalene	91-20-3	< 5	ug/L	< 5	ug/L	1	
Nitrate	NA	8.92	mg/L	1.4	mg/L	1	Used in lawn fertilizer
Nitrite	NA	0.298	mg/L	0.014	mg/L	1	Naturally occurring from lawn fertilizer
Nitrobenzene	98-95-3	< 5	ug/L	< 5	ug/L	1	
Nitrogen, Total Kjeldahl	NA	2.42	mg/L	0.88	mg/L	1	Naturally occurring from lawn fertilizer
Phenanthrene	85-01-8	< 5	ug/L	< 5	ug/L	1	
Phenol	108-95-2	< 5	ug/L	< 5	ug/L	1	
Pyrene	129-00-0	< 5	ug/L	< 5	ug/L	1	

Radium 226		0.422	pCi/L	0.279	pCi/L	1	
Sulfate	14808-79-8	74	mg/L	18	mg/L	1	
Tetrachloroethylene	127-18-4	< 5	ug/L	< 5	ug/L	1	
Titanium, Total	7440-32-6	0.043	mg/L	0.23	mg/L	1	Present in white paint used outdoors
Toluene	108-88-3	< 5	ug/L	< 5	ug/L	1	
Total Radium	NA	0.678	pCi/L	-0.158	pCi/L	1	
Trichloroethylene	79-01-6	< 5	ug/L	< 5	ug/L	1	
Vinyl Chloride	75-01-04	< 5	ug/L	< 5	ug/L	1	

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant	CAS	Grab Sample Taken During 1st 20 Minutes	Units of Measure	Flow-Weighted Composite (conc)	Units of Measure	Number of Storm Events Sampled	Sources of Pollutants
Antimony, Total	7440-36-0	0.063	mg/L	0.026	mg/L	1	
Arsenic, Total	7440-38-2	< 0.005	mg/L	< 0.005	mg/L	1	Source unknown
Cadmium, Total	7440-43-9	< 0.0005	mg/L	< 0.0005	mg/L	1	Ingredient in galvanized coatings
Chromium, Total	7440-47-3	0.001	mg/L	0.004	mg/L	1	Stainless steel piping ingredient
Copper, Total	7440-50-8	0.02	mg/L	0.036	mg/L	1	Ingredient in galvanized coatings
Lead, Total	7439-92-1	< 0.005	mg/L	0.009	mg/L	1	Ingredient in galvanized coatings
Nickel, Total	7440-02-0	< 0.005	mg/L	< 0.005	mg/L	1	Stainless steel piping ingredient
Selenium, Total	7782-49-2	< 0.005	mg/L	< 0.005	mg/L	1	
Zinc, Total	7440-66-6	0.108	mg/L	0.232	mg/L	1	Ingredient in galvanized coatings
Acetaldehyde	75-01-0					Not sampled	Process degradation compound
Carbaryl	63-25-2					Not sampled	Used for insect control
2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7					Not sampled	Broadleaf weed control
Formaldehyde	50-00-0					Not sampled	Used in film manufacturing process
Isopropanolamine	78-96-6					Not sampled	Vegetation control
Xylene	1330-20-7					Not sampled	Raw material contaminate

Part D - Provide data for the storm event(s) which resulted in the maximum flows for the flow weighted composite sample.

1. Date of storm event	2. Duration of storm event (minutes)	3. Total rainfall during storm event (inches)	4. Number of hours between beginning of event and previous rain event	5. Maximum flow rate during rain event (gallons/minute)	6. Total flow from rain event (gal)
December 17, 2015	300	0.97	65	33215	114572
February 3, 2016	360	0.81	264	37825	207897
February 21, 2016	200	0.22	122	5620	25910

7. Provide a description of the method of flow measurement or estimate.

Flow was determined by combination of weir measurements, flow meters, and storm event data

VII. Stormwater Form 2F Discharge information (Continued from page 3 of Form 2F)

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant	Grab Sample Taken During 1st 20 Minutes	Units of Measure	Flow-Weighted Composite (conc)	Units of Measure	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<5	mg/L	N/A	N/A	1	
Biological Oxygen Demand (BOD5)	85	mg/L	5	mg/L	1	Natural sources
Chemical Oxygen Demand (COD)	19	mg/L	24	mg/L	1	Natural sources
Total Suspended Solids (TSS)	20	mg/L	34	mg/L	1	Natural sources
Total Nitrogen	1.16	mg/L	0.68	mg/L	1	Naturally occurring or lawn fertilizer
Total Phosphorous	< 0.10	mg/L	0.17	mg/L	1	Naturally occurring or lawn fertilizer
pH	Minimum		Maximum 6.21			

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if facility is operating under an existing NPDES permit). Complete one table for each outfall. See instructions for additional details and requirements.

Pollutant	CAS	Grab Sample Taken During 1st 20 Minutes	Units of Measure	Flow-Weighted Composite (conc)	Units of Measure	Number of Storm Events Sampled	Sources of Pollutants
1,1,1-Trichloroethane	71-55-6	< 5	ug/L	< 5	ug/L	1	
1,1,2-Trichloroethane	79-00-5	< 5	ug/L	< 5	ug/L	1	
1,1-Dichloroethane	75-34-3	< 5	ug/L	< 5	ug/L	1	
1,1-Dichloroethylene	75335-4	< 5	ug/L	< 5	ug/L	1	
1,2,4-Trichlorobenzene	120-82-1	< 5	ug/L	< 5	ug/L	1	
1,2-Dichlorobenzene	95-50-1	< 5	ug/L	< 5	ug/L	1	
1,2-Dichloroethane	107-06-2	< 5	ug/L	< 5	ug/L	1	
1,2-Dichloropropane	78-87-5	< 5	ug/L	< 5	ug/L	1	
1,2-Trans-Dichloroethylene	156-60-5	< 5	ug/L	< 5	ug/L	1	
1,3-Dichlorobenzene	541-73-1	< 5	ug/L	< 5	ug/L	1	
1,3-Dichloropropylene	542-76-6	< 5	ug/L	< 5	ug/L	1	
1,4-Dichlorobenzene	106-46-7	< 5	ug/L	< 5	ug/L	1	
2,4-Dichlorophenol	120-83-2	< 5	ug/L	< 5	ug/L	1	
2,4-Dimethylphenol	105-67-9	< 5	ug/L	< 5	ug/L	1	
2,4-Dinitrophenol	51-28-5	<20	ug/L	<20	ug/L	1	
2,4-Dinitrotoluene	121-14-2	< 5	ug/L	< 5	ug/L	1	
2,6-Dinitrotoluene	606-20-2	< 5	ug/L	< 5	ug/L	1	
2-Chlorophenol	95-57-8	< 5	ug/L	< 5	ug/L	1	
2-Nitrophenol	88-75-5	< 5	ug/L	< 5	ug/L	1	
3,4-Benzofluoranthene	205-99-2	< 5	ug/L	< 5	ug/L	1	
4,6-Dinitro-O-Cresol	534-52-1	< 5	ug/L	< 5	ug/L	1	
4-Nitrophenol	100-02-7	< 5	ug/L	< 5	ug/L	1	
Acenaphthene	83-32-9	< 5	ug/L	< 5	ug/L	1	

Acenaphthylene	208-96-8	< 5	ug/L	< 5	ug/L	1	
Acrylonitrile	107-13-1	< 50	ug/L	< 50	ug/L	1	
Aluminum, Total	7429-90-5	1.03	mg/L	0.586	mg/L	1	Outdoor aluminum tanks and equipment
Anthracene	120-12-7	< 5	ug/L	< 5	ug/L	1	
Barium, Total	7440-39-3	0.051	mg/L	0.06	mg/L	1	
Benzene	71-43-2	< 5	ug/L	< 5	ug/L	1	
Benzo(a)anthracene	56-55-3	< 5	ug/L	< 5	ug/L	1	
Benzo(a)pyrene	50-32-8	< 5	ug/L	< 5	ug/L	1	
Benzo(k)fluoranthene	207-08-9	< 5	ug/L	< 5	ug/L	1	
Bis(2-ethylhexyl)phthalate	117-81-7	< 5	ug/L	< 5	ug/L	1	
Boron, Total	7440-42-8	< 0.05	mg/L	< 0.05	mg/L	1	
Bromide	24959-67-9	< 1	mg/L	< 1	mg/L	1	
Carbon Tetrachloride	56-23-5	< 5	ug/L	< 5	ug/L	1	
Chlorine, Total Residual	NA	0.09	mg/L	0.09	mg/L	1	
Chlorobenzene	108-90-7	< 5	ug/L	< 5	ug/L	1	
Chloroethane	75-22-3	< 5	ug/L	< 5	ug/L	1	
Chloroform	67-66-3	< 5	ug/L	< 5	ug/L	1	
Chrysene	218-01-9	< 5	ug/L	< 5	ug/L	1	
Cobalt, Total	7440-48-4	< 0.005	mg/L	< 0.005	mg/L	1	
Color	NA	55	pcu	38	pcu	1	Natural sediment and vegetation
Diethyl Phthalate	84-66-2	< 5	ug/L	< 5	ug/L	1	
Dimethyl Phthalate	131-11-3	< 5	ug/L	< 5	ug/L	1	
Di-N-Butyl Phthalate	84-74-2	< 5	ug/L	< 5	ug/L	1	
Dissolved oxygen	NA	7.31	mg/L	7.31	mg/L	1	
Ethylbenzene	100-41-4	< 5	ug/L	< 5	ug/L	1	
Fecal Coliform	NA	> 1600	MPN/100mL	> 1600	MPN/100ml	1	Animal droppings in ditches
Fluorene	86-73-7	< 5	ug/L	< 5	ug/L	1	
Fluoride	16984-48-8	< 0.1	mg/L	< 0.1	mg/L	1	
Fluroranthene	206-44-0	< 5	ug/L	< 5	ug/L	1	
Gross Alpha		-1.5	pCi/L	-1.5	pCi/L	1	
Gross Beta		3.53	pCi/L	3.53	pCi/L	1	
Hexachlorobenzene	118-74-1	< 5	ug/L	< 5	ug/L	1	
Hexachlorobutadiene	87-68-3	< 5	ug/L	< 5	ug/L	1	
Hexachloroethane	67-72-1	< 5	ug/L	< 5	ug/L	1	
Iron, Total	7439-89-4	1.18	mg/L	1.18	mg/L	1	Pipe and other steel materials
Magnesium, Total	7439-95-4	0.586	mg/L	0.586	mg/L	1	Naturally occurring hardness
Manganese, Total	7440-31-5	0.033	mg/L	0.033	mg/L	1	Trace impurity in fertilizer
Methyl Chloride	74-87-3	< 5	ug/L	< 5	ug/L	1	
Methylene Chloride	75-09-2	< 5	ug/L	< 5	ug/L	1	
Molybdenum, Total	7439-98-7	0.242	mg/L	0.242	mg/L	1	Source unknown
Napthalene	91-20-3	< 5	ug/L	< 5	ug/L	1	
Nitrate	NA	0.268	mg/L	0.268	mg/L	1	Used in lawn fertilizer
Nitrite	NA	0.007	mg/L	0.007	mg/L	1	Naturally occurring from lawn fertilizer
Nitrobenzene	98-95-3	< 5	ug/L	< 5	ug/L	1	
Nitrogen, Total Kjeldahl	NA	1.16	mg/L	1.16	mg/L	1	Naturally occurring from lawn fertilizer
Phenanthrene	85-01-8	< 5	ug/L	< 5	ug/L	1	
Phenol	108-95-2	< 5	ug/L	< 5	ug/L	1	
Pyrene	129-00-0	< 5	ug/L	< 5	ug/L	1	

Radium 226		0.493	pCi/L	0.493	pCi/L	1	
Sulfate	14808-79-8	< 10	mg/L	< 10	mg/L	1	
Tetrachloroethylene	127-18-4	< 5	ug/L	< 5	ug/L	1	
Titanium, Total	7440-32-6	0.053	mg/L	0.053	mg/L	1	Present in white paint used outdoors
Toluene	108-88-3	< 5	ug/L	< 5	ug/L	1	
Total Radium	NA	0.957	pCi/L	0.957	pCi/L	1	
Trichloroethylene	79-01-6	< 5		< 5		1	
Vinyl Chloride	75-01-04	< 5	ug/L	< 5	ug/L	1	

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant	CAS	Grab Sample Taken During 1st 20 Minutes	Units of Measure	Flow-Weighted Composite (conc)	Units of Measure	Number of Storm Events Sampled	Sources of Pollutants
Antimony, Total	7440-36-0	0.12	mg/L	0.008	mg/L	1	
Arsenic, Total	7440-38-2	< 0.005	mg/L	< 0.005	mg/L	1	Source unknown
Cadmium, Total	7440-43-9	< 0.0005	mg/L	0.0008	mg/L	1	Ingredient in galvanized coatings
Chromium, Total	7440-47-3	0.002	mg/L	0.003	mg/L	1	Stainless steel piping ingredient
Copper, Total	7440-50-8	0.004	mg/L	0.006	mg/L	1	Ingredient in galvanized coatings
Lead, Total	7439-92-1	< 0.005	mg/L	0.007	mg/L	1	Ingredient in galvanized coatings
Nickel, Total	7440-02-0	< 0.005	mg/L	< 0.005	mg/L	1	Stainless steel piping ingredient
Selenium, Total	7782-49-2	< 0.005	mg/L	< 0.005	mg/L	1	
Zinc, Total	7440-66-6	0.281	mg/L	0.415	mg/L	1	Ingredient in galvanized coatings
Acetaldehyde	75-01-0					Not sampled	Process degradation compound
Carbaryl	63-25-2					Not sampled	Used for insect control
2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7					Not sampled	Broadleaf weed control
Formaldehyde	50-00-0					Not sampled	Used in film manufacturing process
Isopropanolamine	78-96-6					Not sampled	Vegetation control
Xylene	1330-20-7					Not sampled	Raw material contaminate

Part D - Provide data for the storm event(s) which resulted in the maximum flows for the flow weighted composite sample.

1. Date of storm event	2. Duration of storm event (minutes)	3. Total rainfall during storm event (inches)	4. Number of hours between beginning of event and previous rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gal)
December 17, 2015	300	0.97	65	464.5	74405
February 3, 2016	360	0.81	264	372	48906
February 23, 2016	540	0.62	30	99.5	7882.2

7. Provide a description of the method of flow measurement or estimate.

Flow was determined by combination of weir measurements, flow meters, and storm event data

VII. Stormwater Form 2F Discharge information (Continued from page 3 of Form 2F)**Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.**

Pollutant	Grab Sample Taken During 1st 20 Minutes	Units of Measure	Flow-Weighted Composite (conc)	Units of Measure	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<5	mg/L	N/A	N/A	1	
Biological Oxygen Demand (BOD5)	2	mg/L	11	mg/L	1	Natural sources
Chemical Oxygen Demand (COD)	20	mg/L	24	mg/L	1	Natural sources
Total Suspended Solids (TSS)	4.7	mg/L	8.3	mg/L	1	Natural sources
Total Nitrogen	1.95	mg/L	4.95	mg/L	1	Naturally occurring or lawn fertilizer
Total Phosphorous	0.41	mg/L	0.34	mg/L	1	Naturally occurring or lawn fertilizer
pH	Minimum		Maximum 9.78			

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if facility is operating under an existing NPDES permit). Complete one table for each outfall. See instructions for additional details and requirements.

Pollutant	CAS	Grab Sample Taken During 1st 20 Minutes	Units of Measure	Flow-Weighted Composite (conc)	Units of Measure	Number of Storm Events Sampled	Sources of Pollutants
1,1,1-Trichloroethane	71-55-6	< 5	ug/L	< 5	ug/L	1	
1,1,2-Trichloroethane	79-00-5	< 5	ug/L	< 5	ug/L	1	
1,1-Dichloroethane	75-34-3	< 5	ug/L	< 5	ug/L	1	
1,1-Dichloroethylene	75335-4	< 5	ug/L	< 5	ug/L	1	
1,2,4-Trichlorobenzene	120-82-1	< 5	ug/L	< 5	ug/L	1	
1,2-Dichlorobenzene	95-50-1	< 5	ug/L	< 5	ug/L	1	
1,2-Dichloroethane	107-06-2	< 5	ug/L	< 5	ug/L	1	
1,2-Dichloropropane	78-87-5	< 5	ug/L	< 5	ug/L	1	
1,2-Trans-Dichloroethylene	156-60-5	< 5	ug/L	< 5	ug/L	1	
1,3-Dichlorobenzene	541-73-1	< 5	ug/L	< 5	ug/L	1	
1,3-Dichloropropylene	542-76-6	< 5	ug/L	< 5	ug/L	1	
1,4-Dichlorobenzene	106-46-7	< 5	ug/L	< 5	ug/L	1	
2,4-Dichlorophenol	120-83-2	< 5	ug/L	< 5	ug/L	1	
2,4-Dimethylphenol	105-67-9	< 5	ug/L	< 5	ug/L	1	
2,4-Dinitrophenol	51-28-5	< 20	ug/L	< 20	ug/L	1	
2,4-Dinitrotoluene	121-14-2	< 5	ug/L	< 5	ug/L	1	
2,6-Dinitrotoluene	606-20-2	< 5	ug/L	< 5	ug/L	1	
2-Chlorophenol	95-57-8	< 5	ug/L	< 5	ug/L	1	
2-Nitrophenol	88-75-5	< 5	ug/L	< 5	ug/L	1	
3,4-Benzofluoranthene	205-99-2	< 5	ug/L	< 5	ug/L	1	
4,6-Dinitro-O-Cresol	534-52-1	< 5	ug/L	< 5	ug/L	1	
4-Nitrophenol	100-02-7	< 5	ug/L	< 5	ug/L	1	
Acenaphthene	83-32-9	< 5	ug/L	< 5	ug/L	1	

Acenaphthylene	208-96-8	< 5	ug/L	< 5	ug/L	1	
Acrylonitrile	107-13-1	< 50	ug/L	< 50	ug/L	1	
Aluminum, Total	7429-90-5	0.814	mg/L	3.12	mg/L	1	Outdoor aluminum tanks and equipment
Anthracene	120-12-7	< 5	ug/L	< 5	ug/L	1	
Barium, Total	7440-39-3	0.107	mg/L	0.125	mg/L	1	
Benzene	71-43-2	< 5	ug/L	< 5	ug/L	1	
Benzo(a)anthracene	56-55-3	< 5	ug/L	< 5	ug/L	1	
Benzo(a)pyrene	50-32-8	< 5	ug/L	< 5	ug/L	1	
Benzo(k)fluoranthene	207-08-9	< 5	ug/L	< 5	ug/L	1	
Bis(2-ethylhexyl)phthalate	117-81-7	< 5	ug/L	< 5	ug/L	1	
Boron, Total	7440-42-8	< 0.05	mg/L	< 0.05	mg/L	1	
Bromide	24959-67-9	< 1	mg/L	< 1	mg/L	1	
Carbon Tetrachloride	56-23-5	< 5	ug/L	< 5	ug/L	1	
Chlorine, Total Residual	NA	0	mg/L	0	mg/L	1	
Chlorobenzene	108-90-7	< 5	ug/L	< 5	ug/L	1	
Chloroethane	75-22-3	< 5	ug/L	< 5	ug/L	1	
Chloroform	67-66-3	5	ug/L	< 5	ug/L	1	
Chrysene	218-01-9	< 5	ug/L	< 5	ug/L	1	
Cobalt, Total	7440-48-4	0.02	mg/L	0.02	mg/L	1	
Color	NA	45	pcu	35	pcu	1	Natural sediment and vegetation
Diethyl Phthalate	84-66-2	< 5	ug/L	< 5	ug/L	1	
Dimethyl Phthalate	131-11-3	< 5	ug/L	< 5	ug/L	1	
Di-N-Butyl Phthalate	84-74-2	< 5	ug/L	< 5	ug/L	1	
Dissolved oxygen	NA	8.07	mg/L	8.07	mg/L	1	
Ethylbenzene	100-41-4	< 5	ug/L	< 5	ug/L	1	
Fecal Coliform	NA	140	MPN/100mL	140	NA	1	Animal droppings in ditches
Fluorene	86-73-7	< 5	ug/L	< 5	ug/L	1	
Fluoride	16984-48-8	< 0.24	mg/L	< 0.1	mg/L	1	
Fluoranthene	206-44-0	< 5	ug/L	< 5	ug/L	1	
Gross Alpha		0.245	pCi/L	1.44	pCi/L	1	
Gross Beta		7.34	pCi/L	1.48	pCi/L	1	
Hexachlorobenzene	118-74-1	< 5	ug/L	< 5	ug/L	1	
Hexachlorobutadiene	87-68-3	< 5	ug/L	< 5	ug/L	1	
Hexachloroethane	67-72-1	< 5	ug/L	< 5	ug/L	1	
Iron, Total	7439-89-4	1.33	mg/L	4.06	mg/L	1	Pipe and other steel materials
Magnesium, Total	7439-95-4	8.34	mg/L	8.03	mg/L	1	Naturally occurring hardness
Manganese, Total	7440-31-5	0.082	mg/L	0.146	mg/L	1	Trace impurity in fertilizer
Methyl Chloride	74-87-3	< 5	ug/L	< 5	ug/L	1	
Methylene Chloride	75-09-2	< 5	ug/L	< 5	ug/L	1	
Molybdenum, Total	7439-98-7	2.97	mg/L	1	mg/L	1	Source unknown
Napthalene	91-20-3	< 5	ug/L	< 5	ug/L	1	
Nitrate	NA	8.92	mg/L	1.4	mg/L	1	Used in lawn fertilizer
Nitrite	NA	0.298	mg/L	0.014	mg/L	1	Naturally occurring from lawn fertilizer
Nitrobenzene	98-95-3	< 5	ug/L	< 5	ug/L	1	
Nitrogen, Total Kjeldahl	NA	2.42	mg/L	0.88	mg/L	1	Naturally occurring from lawn fertilizer
Phenanthrene	85-01-8	< 5	ug/L	< 5	ug/L	1	
Phenol	108-95-2	< 5	ug/L	< 5	ug/L	1	
Pyrene	129-00-0	< 5	ug/L	< 5	ug/L	1	

Radium 226		0.422	pCi/L	0.279	pCi/L	1	
Sulfate	14808-79-8	74	mg/L	18	mg/L	1	
Tetrachloroethylene	127-18-4	< 5	ug/L	< 5	ug/L	1	
Titanium, Total	7440-32-6	0.043	mg/L	0.23	mg/L	1	Present in white paint used outdoors
Toluene	108-88-3	< 5	ug/L	< 5	ug/L	1	
Total Radium	NA	0.678	pCi/L	-0.158	pCi/L	1	
Trichloroethylene	79-01-6	< 5	ug/L	< 5	ug/L	1	
Vinyl Chloride	75-01-04	< 5	ug/L	< 5	ug/L	1	

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant	CAS	Grab Sample Taken During 1st 20 Minutes	Units of Measure	Flow-Weighted Composite (conc)	Units of Measure	Number of Storm Events Sampled	Sources of Pollutants
Antimony, Total	7440-36-0	0.006	mg/L	0.009	mg/L	1	
Arsenic, Total	7440-38-2	< 0.005	mg/L	< 0.005	mg/L	1	Source unknown
Cadmium, Total	7440-43-9	0.0008	mg/L	0.0006	mg/L	1	Ingredient in galvanized coatings
Chromium, Total	7440-47-3	0.003	mg/L	0.004	mg/L	1	Stainless steel piping ingredient
Copper, Total	7440-50-8	0.027	mg/L	0.019	mg/L	1	Ingredient in galvanized coatings
Lead, Total	7439-92-1	< 0.005	mg/L	0.008	mg/L	1	Ingredient in galvanized coatings
Nickel, Total	7440-02-0	< 0.005	mg/L	< 0.005	mg/L	1	Stainless steel piping ingredient
Selenium, Total	7782-49-2	0.008	mg/L	< 0.005	mg/L	1	
Zinc, Total	7440-66-6	0.082	mg/L	0.242	mg/L	1	Ingredient in galvanized coatings
Acetaldehyde	75-01-0					Not sampled	Process degradation compound
Carbaryl	63-25-2					Not sampled	Used for insect control
2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7					Not sampled	Broadleaf weed control
Formaldehyde	50-00-0					Not sampled	Used in film manufacturing process
Isopropanolamine	78-96-6					Not sampled	Vegetation control
Xylene	1330-20-7					Not sampled	Raw material contaminate

Part D - Provide data for the storm event(s) which resulted in the maximum flows for the flow weighted composite sample.

1. Date of storm event	2. Duration of storm event (minutes)	3. Total rainfall during storm event (inches)	4. Number of hours between beginning of event and previous rain event	5. Maximum flow rate during rain event (gallons/minute)	6. Total flow from rain event (gal)
November 18, 2015	180	0.03	187.5	24.85	3485
February 3, 2016	360	0.81	264	811	100512
February 21, 2016	300	0.22	122	82	6660

7. Provide a description of the method of flow measurement or estimate.

Flow was determined by combination of weired measurements, flow meters, and storm event data

VII. Stormwater Form 2F Discharge information (Continued from page 3 of Form 2F)**Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.**

Pollutant	Grab Sample Taken During 1st 20 Minutes	Units of Measure	Flow-Weighted Composite (conc)	Units of Measure	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<5	mg/L	N/A	N/A	1	
Biological Oxygen Demand (BOD5)	< 2	mg/L	5	mg/L	1	Natural sources
Chemical Oxygen Demand (COD)	23	mg/L	20	mg/L	1	Natural sources
Total Suspended Solids (TSS)	< 1.0	mg/L	7.2	mg/L	1	Natural sources
Total Nitrogen	< 0.50	mg/L	1.92	mg/L	1	Naturally occurring or lawn fertilizer
Total Phosphorous	0.24	mg/L	0.36	mg/L	1	Naturally occurring or lawn fertilizer
pH	Minimum		Maximum 7.76			

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if facility is operating under an existing NPDES permit). Complete one table for each outfall. See instructions for additional details and requirements.

Pollutant	CAS	Grab Sample Taken During 1st 20 Minutes	Units of Measure	Flow-Weighted Composite (conc)	Units of Measure	Number of Storm Events Sampled	Sources of Pollutants
1,1,1-Trichloroethane	71-55-6	< 5	ug/L	< 5	ug/L	1	
1,1,2-Trichloroethane	79-00-5	< 5	ug/L	< 5	ug/L	1	
1,1-Dichloroethane	75-34-3	< 5	ug/L	< 5	ug/L	1	
1,1-Dichloroethylene	75335-4	< 5	ug/L	< 5	ug/L	1	
1,2,4-Trichlorobenzene	120-82-1	< 5	ug/L	< 5	ug/L	1	
1,2-Dichlorobenzene	95-50-1	< 5	ug/L	< 5	ug/L	1	
1,2-Dichloroethane	107-06-2	< 5	ug/L	< 5	ug/L	1	
1,2-Dichloropropane	78-87-5	< 5	ug/L	< 5	ug/L	1	
1,2-Trans-Dichloroethylene	156-60-5	< 5	ug/L	< 5	ug/L	1	
1,3-Dichlorobenzene	541-73-1	< 5	ug/L	< 5	ug/L	1	
1,3-Dichloropropylene	542-76-6	< 5	ug/L	< 5	ug/L	1	
1,4-Dichlorobenzene	106-46-7	< 5	ug/L	< 5	ug/L	1	
2,4-Dichlorophenol	120-83-2	< 5	ug/L	< 5	ug/L	1	
2,4-Dimethylphenol	105-67-9	< 5	ug/L	< 5	ug/L	1	
2,4-Dinitrophenol	51-28-5	< 20	ug/L	< 20	ug/L	1	
2,4-Dinitrotoluene	121-14-2	< 5	ug/L	< 5	ug/L	1	
2,6-Dinitrotoluene	606-20-2	< 5	ug/L	< 5	ug/L	1	
2-Chlorophenol	95-57-8	< 5	ug/L	< 5	ug/L	1	
2-Nitrophenol	88-75-5	< 5	ug/L	< 5	ug/L	1	
3,4-Benzofluoranthene	205-99-2	< 5	ug/L	< 5	ug/L	1	
4,6-Dinitro-O-Cresol	534-52-1	< 5	ug/L	< 5	ug/L	1	
4-Nitrophenol	100-02-7	< 5	ug/L	< 5	ug/L	1	
Acenaphthene	83-32-9	< 5	ug/L	< 5	ug/L	1	

Acenaphthylene	208-96-8	< 5	ug/L	< 5	ug/L	1	
Acrylonitrile	107-13-1	< 50	ug/L	< 50	ug/L	1	
Aluminum, Total	7429-90-5	0.814	mg/L	3.12	mg/L	1	Outdoor aluminum tanks and equipment
Anthracene	120-12-7	< 5	ug/L	< 5	ug/L	1	
Barium, Total	7440-39-3	0.107	mg/L	0.125	mg/L	1	
Benzene	71-43-2	< 5	ug/L	< 5	ug/L	1	
Benzo(a)anthracene	56-55-3	< 5	ug/L	< 5	ug/L	1	
Benzo(a)pyrene	50-32-8	< 5	ug/L	< 5	ug/L	1	
Benzo(k)fluoranthene	207-08-9	< 5	ug/L	< 5	ug/L	1	
Bis(2-ethylhexyl)phthalate	117-81-7	< 5	ug/L	< 5	ug/L	1	
Boron, Total	7440-42-8	< 0.05	mg/L	< 0.05	mg/L	1	
Bromide	24959-67-9	< 1	mg/L	< 1	mg/L	1	
Carbon Tetrachloride	56-23-5	< 5	ug/L	< 5	ug/L	1	
Chlorine, Total Residual	NA	0.03	mg/L	0.03	mg/L	1	
Chlorobenzene	108-90-7	< 5	ug/L	< 5	ug/L	1	
Chloroethane	75-22-3	< 5	ug/L	< 5	ug/L	1	
Chloroform	67-66-3	5	ug/L	5	ug/L	1	
Chrysene	218-01-9	< 5	ug/L	< 5	ug/L	1	
Cobalt, Total	7440-48-4	0.02	mg/L	0.02	mg/L	1	
Color	NA	45	pcu	35	pcu	1	Natural sediment and vegetation
Diethyl Phthalate	84-66-2	< 5	ug/L	< 5	ug/L	1	
Dimethyl Phthalate	131-11-3	< 5	ug/L	< 5	ug/L	1	
Di-N-Butyl Phthalate	84-74-2	< 5	ug/L	< 5	ug/L	1	
Dissolved oxygen	NA	7.82	mg/L	7.82	NA	1	
Ethylbenzene	100-41-4	< 5	ug/L	< 5	ug/L	1	
Fecal Coliform	NA	140	MPN/100mL	140	NA	1	Animal droppings in ditches
Fluorene	86-73-7	< 5	ug/L	< 5	ug/L	1	
Fluoride	16984-48-8	< 0.24	mg/L	< 0.1	mg/L	1	
Fluoranthene	206-44-0	< 5	ug/L	< 5	ug/L	1	
Gross Alpha		0.245	pCi/L	1.44	pCi/L	1	
Gross Beta		7.34	pCi/L	1.48	pCi/L	1	
Hexachlorobenzene	118-74-1	< 5	ug/L	< 5	ug/L	1	
Hexachlorobutadiene	87-68-3	< 5	ug/L	< 5	ug/L	1	
Hexachloroethane	67-72-1	< 5	ug/L	< 5	ug/L	1	
Iron, Total	7439-89-4	1.33	mg/L	4.06	mg/L	1	Pipe and other steel materials
Magnesium, Total	7439-95-4	8.34	mg/L	8.03	mg/L	1	Naturally occurring hardness
Manganese, Total	7440-31-5	0.082	mg/L	0.146	mg/L	1	Trace impurity in fertilizer
Methyl Chloride	74-87-3	< 5	ug/L	< 5	ug/L	1	
Methylene Chloride	75-09-2	< 5	ug/L	< 5	ug/L	1	
Molybdenum, Total	7439-98-7	2.97	mg/L	1	mg/L	1	Source unknown
Napthalene	91-20-3	< 5	ug/L	< 5	ug/L	1	
Nitrate	NA	8.92	mg/L	1.4	mg/L	1	Used in lawn fertilizer
Nitrite	NA	0.298	mg/L	0.014	mg/L	1	Naturally occurring from lawn fertilizer
Nitrobenzene	98-95-3	< 5	ug/L	< 5	ug/L	1	
Nitrogen, Total Kjeldahl	NA	2.42	mg/L	0.88	mg/L	1	Naturally occurring from lawn fertilizer
Phenanthrene	85-01-8	< 5	ug/L	< 5	ug/L	1	
Phenol	108-95-2	< 5	ug/L	< 5	ug/L	1	
Pyrene	129-00-0	< 5	ug/L	< 5	ug/L	1	

Radium 226		0.422	pCi/L	0.279	pCi/L	1	
Sulfate	14808-79-8	74	mg/L	18	mg/L	1	
Tetrachloroethylene	127-18-4	< 5	ug/L	< 5	ug/L	1	
Titanium, Total	7440-32-6	0.043	mg/L	0.23	mg/L	1	Present in white paint used outdoors
Toluene	108-88-3	< 5	ug/L	< 5	ug/L	1	
Total Radium	NA	0.678	pCi/L	-0.158	pCi/L	1	
Trichloroethylene	79-01-6	< 5	ug/L	< 5	ug/L	1	
Vinyl Chloride	75-01-04	< 5	ug/L	< 5	ug/L	1	

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant	CAS	Grab Sample Taken During 1st 20 Minutes	Units of Measure	Flow-Weighted Composite (conc)	Units of Measure	Number of Storm Events Sampled	Sources of Pollutants
Antimony, Total	7440-36-0	0.063	mg/L	0.026	mg/L	1	
Arsenic, Total	7440-38-2	< 0.005	mg/L	< 0.005	mg/L	1	Source unknown
Cadmium, Total	7440-43-9	< 0.0005	mg/L	< 0.0005	mg/L	1	Ingredient in galvanized coatings
Chromium, Total	7440-47-3	0.001	mg/L	0.004	mg/L	1	Stainless steel piping ingredient
Copper, Total	7440-50-8	0.02	mg/L	0.036	mg/L	1	Ingredient in galvanized coatings
Lead, Total	7439-92-1	< 0.005	mg/L	0.009	mg/L	1	Ingredient in galvanized coatings
Nickel, Total	7440-02-0	< 0.005	mg/L	< 0.005	mg/L	1	Stainless steel piping ingredient
Selenium, Total	7782-49-2	< 0.005	mg/L	< 0.005	mg/L	1	
Zinc, Total	7440-66-6	0.108	mg/L	0.232	mg/L	1	Ingredient in galvanized coatings
Acetaldehyde	75-01-0					Not sampled	Process degradation compound
Carbaryl	63-25-2					Not sampled	Used for insect control
2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7					Not sampled	Broadleaf weed control
Formaldehyde	50-00-0					Not sampled	Used in film manufacturing process
Isopropanolamine	78-96-6					Not sampled	Vegetation control
Xylene	1330-20-7					Not sampled	Raw material contaminate

Part D - Provide data for the storm event(s) which resulted in the maximum flows for the flow weighted composite sample.

1. Date of storm event	2. Duration of storm event (minutes)	3. Total rainfall during storm event (inches)	4. Number of hours between beginning of event and previous rain event	5. Maximum flow rate during rain event (gallons/minute)	6. Total flow from rain event (gal)
November 18, 2015	180	0.03	187.5	24.85	3485
February 3, 2016	360	0.81	264	1196	153036
February 21, 2016	300	0.22	122	74	5670

7. Provide a description of the method of flow measurement or estimate.

Flow was determined by combination of weir measurements, flow meters, and storm event data

FACILITY NAME: DuPont Teijin Films

VPDES PERMIT NUMBER: VA0003077

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

1. All applicants must complete Section A (General Information).

2. Will this facility generate sewage sludge? ☐ Yes ☒ No

Will this facility derive a material from sewage sludge? ☐ Yes ☒ No

If you answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material Derived From Sewage Sludge).

3. Will this facility apply sewage sludge to the land? ☐ Yes ☒ No

Will sewage sludge from this facility be applied to the land? ☐ Yes ☒ No

If you answered No to both questions above, skip Section C.

If you answered Yes to either, answer the following three questions:

a. Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions?
☐ Yes ☐ No

b. Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land? ☐ Yes ☐ No

c. Will sewage sludge from this facility be sent to another facility for treatment or blending? ☐ Yes ☐ No

If you answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).

If you answered Yes to a, b or c, skip Section C.

4. Do you own or operate a surface disposal site? ☐ Yes ☒ No

If Yes, complete Section D (Surface Disposal).

FACILITY NAME: DuPont Teijin FilmsVPDES PERMIT NUMBER: VA0003077

5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
- Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
 - Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.

6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.

7. Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge generation, treatment, use or disposal the responsibility of a contractor? ☒ Yes ☐ No
If yes, provide the following for each contractor (attach additional pages if necessary).

Name: Johnny on the spot

Mailing address:

Street or P.O. Box: 6110 Plane DriveCity or Town: Petersburg State: VA Zip: 23803Phone: (804) 387-6070

Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:

If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic	Section not applicable			
Cadmium				
Chromium				
Copper				
Lead				
Mercury				
Molybdenum				
Nickel				
Selenium				
Zinc				

9. Certification. Read and submit the following certification statement with this application. Refer to the instructions to determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting:

☒ Section A (General Information)☒ Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)☐ Section C (Land Application of Bulk Sewage Sludge)☐ Section D (Surface Disposal)

DuPont Teijin Films
VPDES Permit VA9993077
November 16, 2015

VPDES Sewage Sludge Permit Application Form
Section A, Question 6

Description of Sewage Sludge Process

Waste sludge is transferred to the sanitary plant's waste sludge holding tanks where it is alternately aerated then allowed to settle. The clear liquid is then decanted off the top back into the treatment system aeration basins. This process allows more waste sludge to be added to the waste holding tanks.

This sequence is repeated until no more waste sludge can be added to the holding tanks without solids return to the aeration through the decant line. When this occurs, the treatment plant operators contact the sludge hauler, Johnny on the Spot, to pump the holding tanks and deliver the sludge to Hopewell Regional Waste Treatment Facility (HRWTF).

The sludge is discharged to the Primary Treatment Plant at HRWTF, where it is processed as a liquid in their system.

DuPont Teijin Films
VPDES Permit VA9993077
November 16, 2015

VPDES Sewage Sludge Permit Application Form
Section B, Question 6f

Description of Treatment Process at Receiving Facility

The liquid sludge is discharged to Hopewell Regional Waste Treatment Facility (HRWTF) where it is mixed with the domestic wastewater and disinfected with sodium hypochlorite and continues through the treatment processes. Ash from HRWTF's incineration process is transported to the Shoosmith Bros., Inc. Shoosmith Landfill.

FACILITY NAME: DuPont Teijin Films

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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title Mark W. Allen, Plant Manager

Signature  Date Signed 3/4/16

Telephone number (804) 530-9825

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

FACILITY NAME: DuPont Teijin Films

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**SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION
OF A MATERIAL DERIVED FROM SEWAGE SLUDGE**

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1. Amount Generated On Site.
Total dry metric tons per 365-day period generated at your facility: 1.2X10⁻⁶ dry metric tons
2. Amount Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or disposal, provide the following information for each facility from which sewage sludge is received. If you receive sewage sludge from more than one facility, attach additional pages as necessary.
 - a. Facility name:
 - b. Contact Person:
Title:
Phone ()
 - c. Mailing address:
Street or P.O. Box:
City or Town: _____ State: _____ Zip: _____
 - d. Facility Address:
(not P.O. Box)
 - e. Total dry metric tons per 365-day period received from this facility: _____ dry metric tons
 - f. Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:
3. Treatment Provided at Your Facility.
 - a. Which class of pathogen reduction is achieved for the sewage sludge at your facility?
 Class A Class B X Neither or unknown
 - b. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
 - c. Which vector attraction reduction option is met for the sewage sludge at your facility?
 Option 1 (Minimum 38 percent reduction in volatile solids)
 Option 2 (Anaerobic process, with bench-scale demonstration)
 Option 3 (Aerobic process, with bench-scale demonstration)
 Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
 Option 5 (Aerobic processes plus raised temperature)
 Option 6 (Raise pH to 12 and retain at 11.5)
 Option 7 (75 percent solids with no unstabilized solids)
 Option 8 (90 percent solids with unstabilized solids)
 None or unknown
 - d. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge:
 - e. Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above:
4. Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and One of Vector Attraction Reduction Options 1-8 (EQ Sludge).
(If sewage sludge from your facility does not meet all of these criteria, skip Question 4.)
 - a. Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:
_____ dry metric tons
 - b. Is sewage sludge subject to this section placed in bags or other containers for sale or give-away?
 Yes No
5. Sale or Give-Away in a Bag or Other Container for Application to the Land.
(Complete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this question if sewage sludge is covered in Question 4.)
 - a. Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility

FACILITY NAME: DuPont Teijin Films

VPDES PERMIT NUMBER: VA0003077

for sale or give-away for application to the land: _____ dry metric tons

- b. Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land.

6. Shipment Off Site for Treatment or Blending.

(Complete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question does not apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is covered in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.)

- a. Receiving facility name: Hopewell Regional Waste Treatment Facility

- b. Facility contact: Jeannie Grandstaf

Title: Interim Director

Phone: (804) 541-2210

- c. Mailing address:

Street or P.O. Box: 231 Hummel Ross Road

City or Town: Hopewell State: VA Zip: 23860

- d. Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: 1.2×10^{-6} dry metric tons

- e. List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal practices:

Permit Number:

VA0066630

VA50735

Type of Permit:

VPDES

Title V

VAR051450

Stormwater

- f. Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility? ☒ Yes ☐ No

Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility?

☐ Class A

☐ Class B

☒ Neither or unknown

Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce pathogens in sewage sludge:

- g. Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge? ☒ Yes ☐ No

Which vector attraction reduction option is met for the sewage sludge at the receiving facility?

☐ Option 1 (Minimum 38 percent reduction in volatile solids)

☐ Option 2 (Anaerobic process, with bench-scale demonstration)

☐ Option 3 (Aerobic process, with bench-scale demonstration)

☐ Option 4 (Specific oxygen uptake rate for aerobically digested sludge)

☐ Option 5 (Aerobic processes plus raised temperature)

☐ Option 6 (Raise pH to 12 and retain at 11.5)

☐ Option 7 (75 percent solids with no unstabilized solids)

☐ Option 8 (90 percent solids with unstabilized solids)

☒ None unknown

Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge:

HRWTF reduces the vector attraction characteristic through sludge incineration.

- h. Does the receiving facility provide any additional treatment or blending not identified in f or g above?

☐ Yes ☐ No

If yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above:

- i. If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G. HRWTF does not provide sludge for land application, therefore DTF does not provide information in regards to 9 VAC 25-31-530.G.

- j. Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land? ☐ Yes ☒ No

If yes, provide a copy of all labels or notices that accompany the product being sold or given away.

- k. Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? ☒ Yes ☐ No. If no, provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility.

Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the

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week and the times of the day sewage sludge will be transported.

Sludge is hauled on an as needed basis from DuPont Teijin Films (DTF) to HRWTF by Johnny on the Spot.

The sludge truck leaves DTF on Discovery Drive, turns left on Bermuda Hundred Road, right on Allied Road, left on State Rt 10, left on Hummel Ross Road. The total distance is approximately 5 miles.

7. Land Application of Bulk Sewage Sludge.

(Complete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6; complete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)

- a. Total dry metric tons per 365-day period of sewage sludge applied to all land application sites: _____ dry metric tons
- b. Do you identify all land application sites in Section C of this application? ☐ Yes ☐ No
If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions).
- c. Are any land application sites located in States other than Virginia? ☐ Yes ☐ No
If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.
- d. Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).

8. Surface Disposal.

(Complete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)

- a. Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal sites: _____ dry metric tons
- b. Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?
☐ Yes ☐ No
If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary.
- c. Site name or number:
- d. Contact person:
Title:
Phone: ()
Contact is: ☐ Site Owner ☐ Site operator
- e. Mailing address.
Street or P.O. Box:
City or Town: _____ State: _____ Zip: _____
- f. Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal site: _____ dry metric tons
- g. List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface disposal site:
Permit Number: _____ Type of Permit: _____

9. Incineration.

(Complete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)

- a. Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge incinerator: 1.2x10⁻⁶ dry metric tons
- b. Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?
☐ Yes ☒ No
If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.
- c. Incinerator name or number: Hopewell Regional Waste Treatment Facility
- d. Contact person: Jeanie Grandstaf
Title: Interim Director
Phone: (804) 541-2210
Contact is: ☒ Incinerator Owner ☐ Incinerator Operator
- e. Mailing address.
Street or P.O. Box: 231 Hummel Ross Road

FACILITY NAME: DuPont Teijin Films

VPDES PERMIT NUMBER: VA0003077

City or Town: Hopewell State: VA Zip: 23860

- f. Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge incinerator: 1.2X10⁻⁶ dry metric tons

- g. List on this form or an attachment the numbers of all other federal, state or local permits that regulate the firing of sewage sludge at this incinerator:

Permit Number:

Type of Permit:

VA0066630

VPDES

VA50735

Title V

10. Disposal in a Municipal Solid Waste Landfill.

(Complete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information for each municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one municipal solid waste landfill, attach additional pages as necessary.)

- a. Landfill name:

- b. Contact person:

Title:

Phone: ()

Contact is: Landfill Owner Landfill Operator

- c. Mailing address.

Street or P.O. Box:

City or Town: State: Zip:

- d. Landfill location.

Street or Route #:

County:

City or Town: State: Zip:

- e. Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill:

 dry metric tons

- f. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the operation of this municipal solid waste landfill:

Permit Number:

Type of Permit:

- g. Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9 VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?

 Yes No

- h. Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid Waste Management Regulation, 9 VAC 20-80-10 et seq.? Yes No

- i. Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill be watertight and covered? Yes No

Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the week and time of the day sewage sludge will be transported.

VPDES Permit Application Addendum

1. **Entity to whom the permit is to be issued:** DuPont Teijin Films

Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.

2. **Is this facility located within city or town boundaries?** Yes ☐ No ☒

3. **Provide the tax map parcel number for the land where the discharge is located.** 119-12, Sec 1, Parcel A, B, 1, 2, 3 & 4

4. **For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities?** 2 acres

5. **What is the design average effluent flow of this facility?** 0.09 (sanitary) 0.0325 (IWWTP) MGD

For industrial facilities, provide the max. 30-day average production level, include units:

4100 tons of film

In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Yes ☐ No ☒

If "Yes", please identify the other flow tiers (in MGD) or production levels:

Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow?

6. **Nature of operations generating wastewater:**

Polyester polymer & film manufacturing, and sanitary wastewater treatment from site restrooms

6 % of flow from domestic connections/sources

Number of private residences to be served by the treatment works: 0

94 % of flow from non-domestic connections/sources

7. **Mode of discharge:** ☒ Continuous ☒ Intermittent ☐ Seasonal

Describe frequency and duration of intermittent or seasonal discharges:

Outfall 001 is a continuous flow

Storm water at outfall 004 is intermittent and frequency is based on rain events

8. **Identify the characteristics of the receiving stream at the point just above the facility's discharge point:**

☒ Permanent stream, never dry

☐ Intermittent stream, usually flowing, sometimes dry

☐ Ephemeral stream, wet-weather flow, often dry

☐ Effluent-dependent stream, usually or always dry without effluent flow

☐ Lake or pond at or below the discharge point

☐ Other: _____

9. **Approval Date(s):**

O & M Manual February 9, 2015

Sludge/Solids Management Plan May 18, 2012

Have there been any changes in your operations or procedures since the above approval dates? Yes ☐ No ☒

PUBLIC NOTICE BILLING INFORMATION

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in Style Weekly in accordance with 9 VAC 25-31-290.C.2.

Agent/Department to be billed: DuPont Teijin Films – Accounts Payable

Owner: DuPont Teijin Films – Mark W. Allen

Agent/Department Address: 3600 Discovery Drive

Chester, VA 23836

Agent's Telephone No.: 804-530-9825

Printed Name: Mark W. Allen

Authorizing Agent – Signature: 

Date: 03/04/2016

VPDES Permit No.: VA0003077

Facility Name: DuPont Teijin Films

**ATTACHMENT A
DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY CRITERIA MONITORING**

Effective January 1, 2012, all analyses shall be in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

A listing of Virginia Environmental Laboratory Accreditation Program (VELAP) certified and/or accredited laboratories can be found at the following website:

<http://www.dgs.state.va.us/DivisionofConsolidatedLaboratoryServices/Services/EnvironmentalLaboratoryCertification/tabid/1059/Default.aspx>

Please be advised that additional water quality analyses may be necessary and/or required for permitting purposes.

CASRN	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENCY
METALS						
7440-36-0	Antimony, dissolved	(3)	0.20	113	G	1/5 YR
7440-38-2	Arsenic, dissolved	(3)	1.0	8	G	1/5 YR
7440-39-3	Barium, dissolved	(3)	200	61	G	1/5 YR
7440-43-9	Cadmium, dissolved	(3)	0.30	3	G	1/5 YR
16065-83-1	Chromium III, dissolved ⁽⁶⁾	(3)	0.50	< 3	G	1/5 YR
18540-29-9	Chromium VI, dissolved ⁽⁶⁾	(3)	0.50	< 3	G	1/5 YR
7440-50-8	Copper, dissolved	(3)	0.50	73.5	G	1/5 YR
7439-89-6	Iron, dissolved	(3)	1.0	87	G	1/5 YR
7439-92-1	Lead, dissolved	(3)	0.50	<0.5	G	1/5 YR
7439-96-5	Manganese, dissolved	(3)	0.20	10	G	1/5 YR
7439-97-6	Mercury, dissolved	(3)	1.0	< 0.2	G	1/5 YR
7440-02-0	Nickel, dissolved	(3)	0.50	4	G	1/5 YR
7782-49-2	Selenium, Total Recoverable	(3)	2.0	7	G	1/5 YR
7440-22-4	Silver, dissolved	(3)	0.20	< 0.1	G	1/5 YR
7440-28-0	Thallium, dissolved	(3)	(4)	< 1	G	1/5 YR
7440-66-6	Zinc, dissolved	(3)	2.0	51	G	1/5 YR
PESTICIDES/PCBs						
309-00-2	Aldrin	608/625	0.05	< 0.05	G	1/5 YR
57-74-9	Chlordane	608/625	0.2	< 0.2	G	1/5 YR

CASRN	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENCY
2921-88-2	Chlorpyrifos (synonym = Dursban)	622	(4)	< 0.2	G	1/5 YR
72-54-8	DDD	608/625	0.1	< 0.05	G	1/5 YR
72-55-9	DDE	608/625	0.1	< 0.05	G	1/5 YR
50-29-3	DDT	608/625	0.1	< 0.05	G	1/5 YR
8065-48-3	Demeton (synonym = Dementon-O,S)	622	(4)	< 1	G	1/5 YR
333-41-5	Diazinon	622	(4)	< 1	G	1/5 YR
60-57-1	Dieldrin	608/625	0.1	< 0.05	G	1/5 YR
959-98-8	Alpha-Endosulfan (synonym = Endosulfan I)	608/625	0.1	< 0.05	G	1/5 YR
33213-65-9	Beta-Endosulfan (synonym = Endosulfan II)	608625	0.1	< 0.05	G	1/5 YR
1031-07-8	Endosulfan Sulfate	608/625	0.1	< 0.05	G	1/5 YR
72-20-8	Endrin	608/625	0.1	< 0.05	G	1/5 YR
7421-93-4	Endrin Aldehyde	608/625	(4)	< 0.05	G	1/5 YR
86-50-0	Guthion (synonym = Azinphos Methyl)	622	(4)	< 1	G	1/5 YR
76-44-8	Heptachlor	608/625	0.05	< 0.05	G	1/5 YR
1024-57-3	Heptachlor Epoxide	608/625	(4)	< 0.05	G	1/5 YR
319-84-6	Hexachlorocyclohexane Alpha-BHC	608/625	(4)	< 0.05	G	1/5 YR
319-85-7	Hexachlorocyclohexane Beta-BHC	608/625	(4)	< 0.05	G	1/5 YR
58-89-9	Hexachlorocyclohexane Gamma-BHC (syn. = Lindane)	608/625	(4)	< 0.05	G	1/5 YR
143-50-0	Kepone	8081 Extended/ 8270C/8270D	(4)	< 5	G	1/5 YR
121-75-5	Malathion	614	(4)	< 1	G	1/5 YR
72-43-5	Methoxychlor	608.2	(4)	< 0.05	G	1/5 YR
2385-85-5	Mirex	8081 Extended/ 8270C/8270D	(4)	< 0.05	G	1/5 YR
56-38-2	Parathion (synonym = Parathion Ethyl)	614	(4)	< 1	G	1/5 YR
1336-36-3	PCB, total	608/625	7.0	< 0.5	G	1/5 YR
8001-35-2	Toxaphene	608/625	5.0	< 0.5	G	1/5 YR

BASE NEUTRAL EXTRACTABLES

83-32-9	Acenaphthene	610/625	10.0	< 5	G	1/5 YR
120-12-7	Anthracene	610/625	10.0	< 5	G	1/5 YR
92-87-5	Benzidine	625	(4)	< 5	G	1/5 YR
56-55-3	Benzo (a) anthracene	610/625	10.0	< 5	G	1/5 YR

CASRN	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENCY
205-99-2	Benzo (b) fluoranthene	610/625	10.0	< 5	G	1/5 YR
207-08-9	Benzo (k) fluoranthene	610/625	10.0	< 5	G	1/5 YR
50-32-8	Benzo (a) pyrene	610/625	10.0	< 5	G	1/5 YR
111-44-4	Bis 2-Chloroethyl Ether	625	(4)	< 5	G	1/5 YR
108-60-1	Bis 2-Chloroisopropyl Ether	625	(4)	< 5	G	1/5 YR
117-81-7	Bis 2-Ethylhexyl Phthalate (syn. = Di-2-Ethylhexyl Phthalate)	625	10.0	< 5	G	1/5 YR
85-68-7	Butyl benzyl phthalate	625	10.0	< 5	G	1/5 YR
91-58-7	2-Chloronaphthalene	625	(4)	< 5	G	1/5 YR
218-01-9	Chrysene	610/625	10.0	< 5	G	1/5 YR
53-70-3	Dibenzo (a,h) anthracene	610/625	20.0	< 5	G	1/5 YR
95-50-1	1,2-Dichlorobenzene	602/624	10.0	< 5	G	1/5 YR
541-73-1	1,3-Dichlorobenzene	602/624	10.0	< 5	G	1/5 YR
106-46-7	1,4-Dichlorobenzene	602/624	10.0	< 5	G	1/5 YR
91-94-1	3,3-Dichlorobenzidine	625	(4)	< 5	G	1/5 YR
84-66-2	Diethyl phthalate	625	10.0	< 5	G	1/5 YR
131-11-3	Dimethyl phthalate	625	(4)	< 5	G	1/5 YR
84-74-2	Di-n-butyl Phthalate (synonym = Dibutyl Phthalate)	625	10.0	< 5	G	1/5 YR
121-14-2	2,4-Dinitrotoluene	625	10.0	< 5	G	1/5 YR
122-66-7	1,2-Diphenylhydrazine	625/ 8270C/8270D	(4)	< 5	G	1/5 YR
206-44-0	Fluoranthene	610/625	10.0	< 5	G	1/5 YR
86-73-7	Fluorene	610/625	10.0	< 5	G	1/5 YR
118-74-1	Hexachlorobenzene	625	(4)	< 5	G	1/5 YR
87-68-3	Hexachlorobutadiene	625	(4)	< 5	G	1/5 YR
77-47-4	Hexachlorocyclopentadiene	625	(4)	< 5	G	1/5 YR
67-72-1	Hexachloroethane	625	(4)	< 5	G	1/5 YR
193-39-5	Indeno(1,2,3-cd)pyrene	610/625	20.0	< 5	G	1/5 YR
78-59-1	Isophorone	625	10.0	< 5	G	1/5 YR
98-95-3	Nitrobenzene	625	10.0	< 5	G	1/5 YR
62-75-9	N-Nitrosodimethylamine	625	(4)	< 5	G	1/5 YR
621-64-7	N-Nitrosodi-n-propylamine	625	(4)	< 5	G	1/5 YR

CASRN	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENCY
86-30-6	N-Nitrosodiphenylamine	625	(4)	< 5	G	1/5 YR
129-00-0	Pyrene	610/625	10.0	< 5	G	1/5 YR
120-82-1	1,2,4-Trichlorobenzene	625	10.0	< 5	G	1/5 YR

VOLATILES

107-02-8	Acrolein	624	(4)	< 50	G	1/5 YR
107-13-1	Acrylonitrile	624	(4)	< 50	G	1/5 YR
71-43-2	Benzene	602/624	10.0	< 5	G	1/5 YR
75-25-2	Bromoform	624	10.0	< 5	G	1/5 YR
56-23-5	Carbon Tetrachloride	624	10.0	< 5	G	1/5 YR
108-90-7	Chlorobenzene (synonym = Monochlorobenzene)	602/624	50.0	< 5	G	1/5 YR
124-48-1	Chlorodibromomethane	624	10.0	< 5	G	1/5 YR
67-66-3	Chloroform	624	10.0	< 5	G	1/5 YR
75-27-4	Dichlorobromomethane	624	10.0	< 5	G	1/5 YR
107-06-2	1,2-Dichloroethane	624	10.0	< 5	G	1/5 YR
75-35-4	1,1-Dichloroethylene	624	10.0	< 5	G	1/5 YR
156-60-5	1,2-trans-dichloroethylene	624	(4)	< 5	G	1/5 YR
78-87-5	1,2-Dichloropropane	624	(4)	< 5	G	1/5 YR
542-75-6	1,3-Dichloropropene	624	(4)	< 5	G	1/5 YR
100-41-4	Ethylbenzene	602/624	10.0	< 5	G	1/5 YR
74-83-9	Methyl Bromide (synonym = Bromomethane)	624	(4)	< 5	G	1/5 YR
75-09-2	Methylene Chloride (synonym = Dichloromethane)	624	20.0	< 5	G	1/5 YR
79-34-5	1,1,2,2-Tetrachloroethane	624	(4)	< 5	G	1/5 YR
127-18-4	Tetrachloroethylene (synonym = Tetrachloroethene)	624	10.0	< 5	G	1/5 YR
10-88-3	Toluene	602/624	10.0	< 5	G	1/5 YR
79-00-5	1,1,2-Trichloroethane	624	(4)	< 5	G	1/5 YR
79-01-6	Trichloroethylene (synonym = Trichloroethene)	624	10.0	< 5	G	1/5 YR
75-01-4	Vinyl Chloride	624	10.0	< 5	G	1/5 YR

RADIONUCLIDES

N/A	Beta Particle & Photon Activity (mrem/yr)	(3)	(4)	5.782	G	1/5 YR
N/A	Gross Alpha Particle Activity (pCi/L)	(3)	(4)	-0.809	G	1/5 YR

CASRN	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENCY
N/A	Combined Radium 226 and 228	(3)	(4)	2.54	G	1/5 YR
N/A	Uranium	(3)	(4)	0.181	G	1/5 YR
ACID EXTRACTABLES						
95-57-8	2-Chlorophenol	625	10.0	< 5	G	1/5 YR
120-83-2	2,4 Dichlorophenol	625	10.0	< 5	G	1/5 YR
105-67-9	2,4 Dimethylphenol	625	10.0	< 5	G	1/5 YR
51-28-5	2,4-Dinitrophenol	625	(4)	< 20	G	1/5 YR
534-52-1	2-Methyl-4,6-Dinitrophenol	625	(4)	< 5	G	1/5 YR
25154-52-3	Nonylphenol	ASTM D 7065-06	(4)	< 5	G	1/5 YR
87-86-5	Pentachlorophenol	625	50.0	< 10	G	1/5 YR
108-95-2	Phenol	625	10.0	< 5	G	1/5 YR
88-06-2	2,4,6-Trichlorophenol	625	10.0	< 5	G	1/5 YR
MISCELLANEOUS						
776-41-7	Ammonia as NH3-N	350.1	200	160	C	1/5 YR
16887-00-6	Chloride	(3)	(4)	494000	C	1/5 YR
7782-50-5	Chlorine, Total Residual	(3)	100	30	G	1/5 YR
57-12-5	Cyanide, Free ⁽⁸⁾	ASTM 4282-02	10.0	< 0.005	G	1/5 YR
94-75-7	2,4-Dichlorophenoxy acetic acid (synonym = 2,4-D)	615	(4)	0.3	G	1/5 YR
N/A	<i>E. coli</i> / <i>Enterococcus</i> (N/CML)	(3)	(4)	190	G	1/5 YR
N/A	Foaming Agents (as MBAS)	SM 5540 C	(4)	0.10	G	1/5 YR
18496-25-8	Sulfide, dissolved ⁽⁷⁾	SM 4500 S ² B	100	< 0.05	G	1/5 YR
14797-55-8	Nitrate as N (mg/L)	(3)	(4)	5.35	C	1/5 YR
N/A	Sulfate (mg/L)	(3)	(4)	90	C	1/5 YR
N/A	Total Dissolved Solids (mg/L)	(3)	(4)	1120	C	1/5 YR
60-10-5	Tributyltin	(5)	(4)	< 0.03	G	1/5 YR
93-72-1	2-(2,4,5-Trichlorophenoxy propionic acid (synonym = Silvex or 2,4,5-TP)	615	(4)	< 0.2	G	1/5 YR
471-34-1	Hardness (mg/L as CaCO ₃)	(3)	(4)	79.9	G	1/5 YR

Name of Principal Executive Officer or Authorized Agent & Title

 03/04/2016

Signature of Principal Executive Officer or Authorized Agent & Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

FOOTNOTES:

- (1) Quantification level (QL) means the minimum levels, concentrations, or quantities of a target variable (e.g. target analyte) that can be reported with a specified degree of confidence in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

The quantification levels indicated for the metals are actually Specific Target Values developed for this permit. The Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The Specific Target Values are subject to change based on additional information such as hardness data, receiving stream flow, and design flows.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information (i.e. laboratory certificates of analysis) shall be submitted to document that the required quantification level has been attained.

- (2) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

C = Composite = A 24-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period.

- (3) A specific analytical method is not specified; however, an appropriate method to meet the QL shall be selected from any approved method presented in 40 CFR Part 136.
- (4) The QL is at the discretion of the permittee. If the test result is less than the method QL, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].
- (5) Analytical Methods: Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science, dated November 1996 (currently the only Virginia Environmental Laboratory Accreditation Program (VELAP) accredited method).

- (6) Both Chromium III and Chromium VI may be measured by the total chromium analysis. The total chromium analytical test QL shall be less than or equal to the lesser of the Chromium III or Chromium VI method QL listed above. If the result of the total chromium analysis is less than the analytical test QL, both Chromium III and Chromium VI can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].
- (7) Dissolved sulfide may be measured by the total sulfide analysis. The total sulfide analytical test QL shall be less than or equal to the dissolved sulfide method QL listed above. If the result of the total sulfide analysis is less than the analytical test QL, dissolved sulfide can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].
- (8) Free cyanide may be measured by the total cyanide analysis. The total cyanide analytical test QL shall be less than or equal to the free cyanide method QL listed above. If the result of the total cyanide analysis is less than the analytical test QL, free cyanide can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].